

DIABETES

LITERATURE INDEX

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

Public Health Service

National Institutes of Health

MARCH 1977
VOLUME 12, NO. 3

DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

A monthly publication of the
National Institute of Arthritis, Metabolism, and Digestive Diseases

Editor

Joseph Izzo, M.D. Rochester, New York

Associate Editor

Orion D. Hegre, Ph.D. Minneapolis, Minnesota

Editorial Advisors

<i>James Ashmore, Ph.D.</i>	<i>Indianapolis, Indiana</i>
<i>Jonathan S. Bishop, M.D.</i>	<i>Minneapolis, Minnesota</i>
<i>Jerome W. Conn, M.D.</i>	<i>Ann Arbor, Michigan</i>
<i>Sherwin J. Cooperstein, Ph.D.</i>	<i>Hartford, Connecticut</i>
<i>Thaddeus S. Danowski, M.D.</i>	<i>Pittsburgh, Pennsylvania</i>
<i>Peter H. Forsham, M.D.</i>	<i>San Francisco, California</i>
<i>Frederick C. Goetz, M.D.</i>	<i>Minneapolis, Minnesota</i>
<i>Irving Graef, M.D.</i>	<i>New York, New York</i>
<i>Reginald E. Haist, M.D.</i>	<i>Toronto, Canada</i>
<i>Paul E. Lacy, M.D.</i>	<i>St. Louis, Missouri</i>
<i>Rachmiel Levine, M.D.</i>	<i>Duarte, California</i>
<i>Rolf Luft, M.D.</i>	<i>Stockholm, Sweden</i>
<i>Max Miller, M.D.</i>	<i>Cleveland, Ohio</i>
<i>Jesse Roth, M.D.</i>	<i>Bethesda, Maryland</i>
<i>Laurentius O. Underdahl, M.D.</i>	<i>Rochester, Minnesota</i>
<i>Sidney Weinhouse, M.D.</i>	<i>Philadelphia, Pennsylvania</i>
<i>Frank G. Young, Ph.D., D.Sc.</i>	<i>Cambridge, England</i>

Technical Editor

Walter J. Schoener, B.A. Minneapolis, Minnesota

Prepared for the
National Institute of Arthritis, Metabolism, and Digestive Diseases
through the cooperative efforts of the
University of Minnesota and the University of Rochester
pursuant to a contract with the
PHS, USDHEW, PH43-67-663

DHEW Publication No. (NIH) 77-303

CONTENTS

	<i>Page</i>
PREFACE	iv
EDITORIAL NOTE	v
HIERARCHICAL INDEX	
Arrangement of the HIERARCHICAL INDEX.....	2919
MEDLARS Terms Included in HIERARCHICAL INDEX	2921
KEYWORD INDEX	2961
AUTHOR INDEX	3023

PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

Scientific Communications Office
Diabetes Literature Index
National Institute of Arthritis,
Metabolism, and Digestive Diseases
Building 31, Room 9A-03
Bethesda, Maryland 20014

Other individuals and other libraries may receive this publication by subscribing *directly* to the Superintendent of Documents. Subscription price per year in the United States, Canada, and Mexico, \$26.50 (cumulative index issue not included; will be on sale, price to be determined later); foreign, \$6.65 additional; and \$2.25 for a single copy. Payment is required in advance, and check or money order should be made payable to the Superintendent of Documents. Address changes for subscribers should be sent *directly* to:

Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402

The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

Arrangement of the Hierarchical Index

1	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	1.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
1.A	ISLANDS OF LANGERHANS	1.E.3.6	HYPERGLYCEMIA, ETIOLOGY
1.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	1.E.3.7	HYPERGLYCEMIA, METABOLISM
1.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	1.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	1.E.3.9	HYPERGLYCEMIA, URINE
1.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	1.E.4	GLYCOSURIA
1.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	1.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
1.B	PANCREAS	1.E.4.2	GLYCOSURIA, COMPLICATIONS
1.B.1	PANCREAS, ANATOMY RELATED	1.E.4.3	GLYCOSURIA, DIAGNOSIS
1.B.2	PANCREAS, BIOCHEMISTRY RELATED	1.E.4.4	GLYCOSURIA, DRUG THERAPY
1.B.3	PANCREAS, PHYSIOLOGY RELATED	1.E.4.5	GLYCOSURIA, ENZYMOLOGY
1.B.4	PANCREAS, PHARMACOLOGY RELATED	1.E.4.6	GLYCOSURIA, ETIOLOGY
1.B.5	PANCREAS, PATHOLOGY RELATED	1.E.4.7	GLYCOSURIA, METABOLISM
1.B.6	PANCREAS, SURGERY RELATED	1.E.4.8	GLYCOSURIA, OCCURRENCE
1.B.6.1	PANCREAS, TRANSPLANTATION	1.E.5	GLYCOSURIA, RENAL
1.B.6.2	PANCREATECTOMY	1.E.6	HYPOGLYCEMIA
1.C	INSULIN	1.E.6.1	HYPOGLYCEMIA, BLOOD
1.C.1	INSULIN, BIOCHEMISTRY RELATED	1.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
1.C.1.1	INSULIN, ISOLATION AND PURIFICATION	1.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
1.C.1.2	INSULIN, ANALYSIS	1.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
1.C.1.3	INSULIN, CHEMICAL SYNTHESIS	1.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
1.C.1.4	INSULIN, BIOSYNTHESIS	1.E.6.6	HYPOGLYCEMIA, ETIOLOGY
1.C.1.5	INSULIN, METABOLISM	1.E.6.7	HYPOGLYCEMIA, METABOLISM
1.C.1.6	INSULIN, BLOOD	1.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
1.C.1.7	INSULIN, URINE	1.E.6.9	HYPOGLYCEMIA, THERAPY
1.C.2	INSULIN, PHYSIOLOGY RELATED	1.F	DIABETES
1.C.2.1	INSULIN, PHYSIOLOGY	1.F.1	ALLOXAN DIABETES (SEE SEC. 1.F.10.2)
1.C.2.2	INSULIN, SECRETION	1.F.2	DIABETES MELLITUS
1.C.3	INSULIN, PHARMACOLOGY RELATED	1.F.2.1	DIABETES MELLITUS, JUVENILE
1.C.3.1	INSULIN, PHARMACODYNAMICS	1.F.3	DIABETES, BIOCHEMISTRY RELATED
1.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	1.F.3.1	DIABETES, METABOLISM
1.C.3.3	INSULIN, ADVERSE EFFECTS	1.F.3.2	DIABETES, ENZYMOLOGY
1.C.4	HYPERINSULINISM	1.F.3.3	DIABETES, BLOOD
1.C.4.1	INSULIN COMA	1.F.3.4	DIABETES, URINE
1.C.5	INSULIN ANTIBODIES	1.F.4	DIABETES, PHYSIOPATHOLOGY
1.C.6	INSULIN RESISTANCE	1.F.5	DIABETES, IMMUNOLOGY
1.C.7	INSULIN, THERAPY RELATED	1.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
1.C.7.1	INSULIN, DIAGNOSTIC USE	1.F.6.1	DIABETIC KETOACIDOSIS
1.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE 1.F.9.3.1)	1.F.6.1.1	ACIDOSIS, DIABETIC
1.C.7.3	INSULIN, THERAPEUTIC USE (SEE 1.F.9.3.2)	1.F.6.1.2	DIABETIC COMA
1.C.8	INSULIN, HISTORY	1.F.6.2	DIABETIC ANGIOPATHIES
1.D	GLUCAGON	1.F.6.3	DIABETIC NEPHROPATHIES
1.D.1	GLUCAGON, BIOCHEMISTRY RELATED	1.F.6.4	DIABETIC NEUROPATHIES
1.D.1.1	GLUCAGON, ANALYSIS	1.F.6.5	DIABETIC RETINOPATHY
1.D.1.2	GLUCAGON, METABOLISM	1.F.6.6	OTHER COMPLICATIONS OF DIABETES
1.D.1.3	GLUCAGON, BLOOD	1.F.6.7	DIABETES PATHOLOGY
1.D.2	GLUCAGON, PHYSIOLOGY RELATED	1.F.6.8	PREGNANCY IN DIABETES
1.D.2.1	GLUCAGON, PHYSIOLOGY	1.F.7	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
1.D.2.2	GLUCAGON, SECRETION	1.F.7.1	DIABETES, OCCURRENCE
1.D.3	GLUCAGON, PHARMACOLOGY RELATED	1.F.7.2	DIABETES, ETIOLOGY
1.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	1.F.7.3	DIABETES, CONGENITAL
1.D.3.2	GLUCAGON, PHARMACODYNAMICS	1.F.7.4	DIABETES, FAMILIAL AND GENETIC
1.D.3.3	GLUCAGON, TOXICITY	1.F.7.5	PREDIABETIC STATE
1.D.4	GLUCAGON, THERAPY RELATED	1.F.8	DIABETES, DIAGNOSIS RELATED
1.D.4.1	GLUCAGON, DIAGNOSTIC USE	1.F.8.1	GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)
1.D.4.2	GLUCAGON, THERAPEUTIC USE	1.F.8.2	DIABETES, DIAGNOSIS
1.E	BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS	1.F.9	DIABETES, THERAPY RELATED
1.E.1	BLOOD SUGAR	1.F.9.1	DIABETES, PREVENTION AND CONTROL
1.E.1.1	BLOOD SUGAR, ANALYSIS	1.F.9.2	DIABETES, NUTRITION AND DIET THERAPY
1.E.1.2	BLOOD SUGAR, BIOSYNTHESIS	1.F.9.2.1	OBESITY IN DIABETES
1.E.1.3	BLOOD SUGAR, METABOLISM	1.F.9.2.2	GLUCOSE, THERAPEUTIC USE
1.E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	1.F.9.2.3	DIET
1.E.2	GLUCOSE TOLERANCE TEST	1.F.9.2.4	DIABETIC DIET
1.E.3	HYPERGLYCEMIA	1.F.9.2.5	DIETARY CARBOHYDRATES
1.E.3.1	HYPERGLYCEMIA, BLOOD	1.F.9.2.6	DIETARY FATS
1.E.3.2	HYPERGLYCEMIA, CHEMICALLY INDUCED	1.F.9.2.7	CYCLAMATES
1.E.3.3	HYPERGLYCEMIA, COMPLICATIONS	1.F.9.2.8	SACCHARIN
1.E.3.4	HYPERGLYCEMIA, DIAGNOSIS	1.F.9.3	DIABETES, INSULIN AND THERAPY

Arrangement of the Hierarchical Index

1.F.9.3.1	INSULIN, ADMINISTRATION AND DOSAGE	2.G.2.6	JUVENILE HORMONES
1.F.9.3.2	INSULIN, THERAPEUTIC USE	2.G.3	CHROMAFFIN SYSTEM
1.F.9.4	DIABETES, ANTIDIABETICS AND THERAPY	2.G.4	PINEAL BODY
1.F.9.4.1	ANTIDIABETICS	2.G.5	PITUITARY-ADRENAL SYSTEM
1.F.9.4.2	TOLBUTAMIDE	2.G.6	SECRETORY RATE
1.F.9.4.3	OTHER SULFONYL-UREA DERIVATIVES		
1.F.9.4.4	PHENFORMIN		
1.F.9.4.5	OTHER BIGUANIDES		
1.F.9.5	DIABETES DRUG THERAPY		
1.F.9.6	DIABETES THERAPY		
1.F.9.7	DIABETES, RADIOGRAPHY		
1.F.9.8	DIABETES, SURGERY		
1.F.9.9	DIABETES, MORTALITY		
1.F.10	DIABETES, EXPERIMENTAL		
1.F.10.1	DIABETES, CHEMICALLY INDUCED		
1.F.10.2	ALLOXAN DIABETES		
1.F.10.2.1	ALLOXAN DIABETES, BLOOD		
1.F.10.2.2	ALLOXAN DIABETES, DRUG THERAPY		
1.F.10.2.3	ALLOXAN DIABETES, ENZYMOLOGY		
1.F.10.2.4	ALLOXAN DIABETES, METABOLISM		
1.F.10.2.5	ALLOXAN DIABETES, PATHOLOGY		
1.F.10.2.6	ALLOXAN DIABETES, PHYSIOPATHOLOGY		
1.F.11	DIABETES, VETERINARY		
1.F.12	DIABETES, HISTORY		
2	SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS		
2.A	ENDOCRINE PANCREAS		
2.A.1	ISLETS (SEE SEC. 1.A)		
2.A.2	INSULIN (SEE SEC. 1.C)		
2.A.3	GLUCAGON (SEE SEC. 1.D)		
2.B	ADRENAL GLANDS		
2.B.1	ADRENAL CORTEX		
2.B.2	ADRENAL CORTEX HORMONES		
2.B.2.1	GLUCOCORTICIDS		
2.B.2.1.1	CORTISONE		
2.B.2.1.2	HYDROCORTISONE		
2.B.2.1.3	OTHER GLUCOCORTICIDS		
2.B.2.2	MINERALOCORTICIDS		
2.B.3	ADRENAL MEDULLA		
2.B.3.1	EPINEPHRINE		
2.B.3.2	NOREPINEPHRINE		
2.B.4	ADRENALECTOMY		
2.B.5	ADRENAL DISORDERS		
2.C	THYROID GLAND		
2.C.1	THYROID HORMONES		
2.C.2	THYROID ANTAGONISTS		
2.C.3	THYROID DISORDERS		
2.D	PARATHYROID GLANDS		
2.E	PITUITARY GLAND		
2.E.1	PITUITARY HORMONES, ANTERIOR		
2.E.1.1	CORTICOTROPIN		
2.E.1.2	SOMATOTROPIN		
2.E.1.3	THYROTROPIN		
2.E.1.4	GONADOTROPINS, PITUITARY		
2.E.2	PITUITARY HORMONES, POSTERIOR		
2.E.3	PITUITARY HORMONES, INTERMEDIATE		
2.E.4	PITUITARY HORMONE RELEASING FACTORS		
2.E.5	HYPOPHYSECTOMY		
2.E.6	PITUITARY DISORDERS		
2.F	GONADS		
2.F.1	OVARY		
2.F.2	TESTIS		
2.F.3	SEX HORMONES		
2.F.3.1	ANDROGENS		
2.F.3.2	ESTROGENS		
2.F.3.3	CORPUS LUTEUM AND PROGESTATIONAL HORMONES		
2.F.3.3.1	CORPUS LUTEUM HORMONES		
2.F.3.3.2	PROGESTATIONAL HORMONES		
2.F.3.4	CONTRACEPTIVES, ORAL		
2.F.4	GONADAL DISORDERS		
2.G	OTHER ENDOCRINES AND RELATED TERMS		
2.G.1	ENDOCRINE GLANDS		
2.G.2	HORMONES		
2.G.2.1	GASTROINTESTINAL HORMONES		
2.G.2.2	PROSTAGLANDINS		
2.G.2.3	HORMONES, ECTOPIC		
2.G.2.4	PLACENTAL HORMONES		
2.G.2.5	RELAXIN		

MEDLARS Terms Included in Hierarchical Index

ACETONHEXAMIDE
ACIDOSIS
ACIDOSIS, DIABETIC
ACROMEGALY
ADISON'S DISEASE
ADRENAL CORTIX HORMONES
ADRENAL GLAND HYPERFUNCTION
ADRENAL GLAND HYPOFUNCTION
ADRENAL GLANDS
ADRENAL MEDULLA
ADRENALECTOMY
ADRENOGENITAL SYNDROME

ALDOSTERONE
ALLOXAN DIABETES
BLOOD
DRUG THERAPY
ENZYMOLGY
METABOLISM
PATHOLOGY
PHYSIOPATHOLOGY

AMNIOCENTESIS
ANABOLIC STEROIDS
ANDROGENS
ANDROSTERONE

ANTIADIBETICS
APGAR SCORE
ARTERIOSCLEROSIS
BETAMETHASONE
BIGUANIDES
BLOOD SUGAR
ANALYSIS
BIOSYNTHESIS
METABOLISM
PHARMACODYNAMICS

CALCITONIN
CARBUTAMIDE
CHLORMADINONE
CHLOROTRIANISONE
CHLOROPROMADINE
CHOLECYSTOKININ
CHOLESTEROL, DIETARY
CHROMAFFIN SYSTEM
CONTRACEPTIVES, ORAL
CORONARY DISEASE
CORPUS LUTEUM
CORPUS LUTEUM HORMONES
CORTICOSTERONE
CORTICOTROPIN
CORTICOTROPIN RELEASING HORMONE
CORTISONE
CRETINISM
CUSHINGS SYNDROME
CYCLAMATES
CYTOCHALASIN B
CYTOCHALASINS
DEHYDROEPIANDROSTERONE

DESOXYCORTICOSTERONE
DEXAMETHASONE
DIABETES INSIPIDUS
DIABETES MELLITUS
BLOOD
CHEMICALLY INDUCED
COMPLICATIONS
CONGENITAL
DIAGNOSIS
DRUG THERAPY
ENZYMOLGY
ETIOLOGY
FAMILIAL & GENETIC
HISTORY
IMMUNOLOGY
METABOLISM
MORTALITY
OCCURRENCE

1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
1.F.6.1.1 ACIDOSIS, DIABETIC
1.F.6.1.1 ACIDOSIS, DIABETIC
2.E.6 PITUITARY DISORDERS
2.B.5 ADRENAL DISORDERS
2.B.2 ADRENAL CORTIX HORMONES
2.B.5 ADRENAL DISORDERS
2.B.5 ADRENAL DISORDERS
2.B.5 ADRENAL DISORDERS
2.B.5 ADRENAL DISORDERS
2.B.3 ADRENAL MEDULLA
2.B.4 ADRENALECTOMY
2.F.4 GONADAL DISORDERS
2.B.5 ADRENAL DISORDERS
2.B.2.2 MINERALOCORTICOIDES
1.F.10.2 ALLOXAN DIABETES
1.F.10.2.1 ALLOXAN DIABETES, BLOOD
1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY
1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY
1.F.10.2.4 ALLOXAN DIABETES, METABOLISM
1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY
1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY
1.F.6.8 PREGNANCY IN DIABETES
2.F.3.1 ANDROGENS
2.F.3.1 ANDROGENS
2.F.3.1 ANDROGENS
2.B.2.1.3 OTHER GLUCOCORTICOIDES
1.F.9.4.1 ANTIDIBETICS
1.F.6.8 PREGNANCY IN DIABETES
1.F.6.2 DIABETIC ANGIOPATHIES
2.B.2.1.3 OTHER GLUCOCORTICOIDES
1.F.9.4.5 OTHER BIGUANIDES
1.E.1 BLOOD SUGAR
1.E.1.1 BLOOD SUGAR, ANALYSIS
1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS
1.E.1.3 BLOOD SUGAR, METABOLISM
1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS
2.C.1 THYROID HORMONES
1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
2.F.3.3.2 PROGESTATIONAL HORMONES
2.F.3.2 ESTROGENS
1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
2.G.2.1 GASTROINTESTINAL HORMONES
1.F.9.2.6 DIETARY FATS
2.G.3 CHROMAFFIN SYSTEM
2.F.3.4 CONTRACEPTIVES, ORAL
1.F.6.2 DIABETIC ANGIOPATHIES
2.F.1 OVARY
2.F.3.3.1 CORPUS LUTEUM HORMONES
2.B.2.1.3 OTHER GLUCOCORTICOIDES
2.E.1.1 CORTICOTROPIN
2.E.4 PITUITARY HORMONE RELEASING FACTORS
2.B.2.1.1 CORTISONE
2.C.3 THYROID DISORDERS
2.B.5 ADRENAL DISORDERS
1.F.9.2.7 CYCLAMATES
1.C.2.2 INSULIN, SECRETION
1.C.2.2 INSULIN, SECRETION
2.B.2.1.3 OTHER GLUCOCORTICOIDES
2.F.3.1 ANDROGENS
2.B.2.2 MINERALOCORTICOIDES
2.B.2.1.3 OTHER GLUCOCORTICOIDES
2.E.6 PITUITARY DISORDERS
1.F.2 DIABETES MELLITUS
1.F.3.3 DIABETES, BLOOD
1.F.10.1 DIABETES, CHEMICALLY INDUCED
1.F.6.6 OTHER COMPLICATIONS OF DIABETES
1.F.7.3 DIABETES, CONGENITAL
1.F.8.2 DIABETES, DIAGNOSIS
1.F.9.5 DIABETES DRUG THERAPY
1.F.3.2 DIABETES, ENZYMOLOGY
1.F.7.2 DIABETES, ETIOLOGY
1.F.7.4 DIABETES, FAMILIAL AND GENETIC
1.F.12 DIABETES, HISTORY
1.F.5 DIABETES, IMMUNOLOGY
1.F.3.1 DIABETES, METABOLISM
1.F.9.9 DIABETES, MORTALITY
1.F.7.1 DIABETES, OCCURRENCE

PATHOLOGY
PHYSIOPATHOLOGY
PREVENTION & CONTROL
RADIOGRAPHY
SURGERY
THERAPY
URINE
VETERINARY
DIABETES MELLITUS, JUVENILE
BLOOD
CHEMICALLY INDUCED
COMPLICATIONS
CONGENITAL
DIAGNOSIS
DRUG THERAPY
ENZYMOLGY
ETIOLOGY
FAMILIAL & GENETIC
HISTORY
IMMUNOLOGY
METABOLISM
MORTALITY
OCCURRENCE
PATHOLOGY
PHYSIOPATHOLOGY
PREVENTION & CONTROL
RADIOGRAPHY
SURGERY
THERAPY
URINE
VETERINARY
DIABETIC ANGIOPATHIES
DIABETIC COMA
DIABETIC DIET
DIABETIC NEPHROPATHIES
DIABETIC NEUROPATHIES
DIABETIC RETINOPATHY
DIET
DIET, ATHEROGENIC
DIET, REDUCING
DIETARY CARBOHYDRATES
DIETARY FATS
DIETHYLSTILBESTROL
DIODOTYROSINE
DROMOSTANOLONE
DWARFISM, PITUITARY
DYDROGESTERONE
ECDYSONE
ENDOCRINE DISEASES
ENDOCRINE GLANDS
ENDOCRINE SYSTEM (NON MESH)

EPINEPHRINE
ESTRADIOL
ESTRIOL
ESTROGENIC SUBSTANCES, CONJUGATED
ESTROGENS
ESTRONE
ETHINYL ESTRADIOL
ETHISTERONE

ETHYLESTRENOL

ETHYNOLOL DIACETATE

ETIOCHOLANOLONE

EUNUCHISM
FLUDROCORTISONE

FLUOCINOLONE ACETONIDE
FLUOROMETHOLONE
FLUOXYMESTERONE
FLURANDRENOLONE
FROELICHS SYNDROME
FSH
GASTRIN
GASTROINTESTINAL HORMONES

1.F.6.7 DIABETES PATHOLOGY
1.F.4 DIABETES, PHYSIOPATHOLOGY
1.F.9.1 DIABETES, PREVENTION AND CONTROL
1.F.9.7 DIABETES, RADIOGRAPHY
1.F.9.8 DIABETES, SURGERY
1.F.9.6 DIABETES THERAPY
1.F.3.4 DIABETES, URINE
1.F.11 DIABETES, VETERINARY
1.F.2.1 DIABETES MELLITUS, JUVENILE
1.F.3.3 DIABETES, BLOOD
1.F.10.1 DIABETES, CHEMICALLY INDUCED
1.F.6.6 OTHER COMPLICATIONS OF DIABETES
1.F.7.3 DIABETES, CONGENITAL
1.F.8.2 DIABETES, DIAGNOSIS
1.F.9.5 DIABETES DRUG THERAPY
1.F.3.2 DIABETES, ENZYMOLOGY
1.F.7.2 DIABETES, ETIOLOGY
1.F.7.4 DIABETES, FAMILIAL AND GENETIC
1.F.12 DIABETES, HISTORY
1.F.5 DIABETES, IMMUNOLOGY
1.F.3.1 DIABETES, METABOLISM
1.F.9.9 DIABETES, MORTALITY
1.F.7.1 DIABETES, OCCURRENCE
1.F.6.7 DIABETES PATHOLOGY
1.F.4 DIABETES, PHYSIOPATHOLOGY
1.F.9.1 DIABETES, PREVENTION AND CONTROL
1.F.9.7 DIABETES, RADIOGRAPHY
1.F.9.8 DIABETES, SURGERY
1.F.9.6 DIABETES THERAPY
1.F.3.4 DIABETES, URINE
1.F.11 DIABETES, VETERINARY
1.F.6.2 DIABETIC ANGIOPATHIES
1.F.6.1.2 DIABETIC COMA
1.F.9.2.4 DIABETIC DIET
1.F.6.3 DIABETIC NEPHROPATHIES
1.F.6.4 DIABETIC NEUROPATHIES
1.F.6.5 DIABETIC RETINOPATHY
1.F.9.2.3 DIET
1.F.9.2.3 DIET
1.F.9.2.3 DIET
1.F.9.2.5 DIETARY CARBOHYDRATES
1.F.9.2.6 DIETARY FATS
2.F.3.2 ESTROGENS
2.C.1 THYROID HORMONES
2.F.3.1 ANDROGENS
2.E.6 PITUITARY DISORDERS
2.F.3.2 PROGESTATIONAL HORMONES
2.G.2 HORMONES
2.G.1 ENDOCRINE GLANDS
2.G.1 ENDOCRINE GLANDS
2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS
2.B.3.1 EPINEPHRINE
2.F.3.2 ESTROGENS
2.F.3.2 ESTROGENS
2.F.3.2 ESTROGENS
2.F.3.2 ESTROGENS
2.F.3.2 ESTROGENS
2.F.3.2 ESTROGENS
2.F.3.2 ESTROGENS
2.F.3.2 ESTROGENS
2.F.3.2 PROGESTATIONAL HORMONES
2.F.3.2 ESTROGENS
2.F.3.1 ANDROGENS
2.F.3.2 PROGESTATIONAL HORMONES
2.F.3.2 ESTROGENS
2.F.3.2 ESTROGENS
2.F.3.1 ANDROGENS
2.F.4 GONADAL DISORDERS
2.B.2.1.3 OTHER GLUCOCORTICOIDES
2.B.2.2 MINERALOCORTICOIDES
2.B.2.1.3 OTHER GLUCOCORTICOIDES
2.B.2.1.3 OTHER GLUCOCORTICOIDES
2.F.3.1 ANDROGENS
2.B.2.1.3 OTHER GLUCOCORTICOIDES
2.E.6 PITUITARY DISORDERS
2.E.1.4 GONADOTROPINS, PITUITARY
2.G.2.1 GASTROINTESTINAL HORMONES
2.G.2.1 GASTROINTESTINAL HORMONES

MEDLARS Terms Included in Hierarchical Index

GIANTISM GLIBENCLAMIDE GLUCAGON

ADMINISTRATION & DOSAGE

ANALYSIS BLOOD DIAGNOSTIC USE METABOLISM PHARMACODYNAMICS PHYSIOLOGY SECRETION THERAPEUTIC USE TOXICITY

GLUCOCORTICOID GLUCOSE THERAPEUTIC USE GLUCOSE TOLERANCE TEST GLYCOSURIA

CHEMICALLY INDUCED COMPLICATIONS DIAGNOSIS DRUG THERAPY ENZYMOLGY ETIOLOGY METABOLISM OCCURRENCE GLYCOSURIA, RENAL GOITER, EXOPHTHALMIC GONADOTROPINS, CHORIONIC GONADOTROPINS, EQUINE GONADOTROPINS, PITUITARY GONADS GRAAFIAN FOLLICLE GROWTH DISORDERS HERMAPHRODITISM HEXESTROL HORMONES HORMONES, ECTOPIC HYDROCORTISONE 11-HYDROXYCORTICOSTEROIDS 17-HYDROXYCORTICOSTEROIDS HYDROXYCORTICOSTEROIDS HYDROXYMETHYLTESTOSTERONE HYDROXYPROGESTERONE

HYPERALDOSTERONISM

HYPERGLYCEMIA

BLOOD CHEMICALLY INDUCED COMPLICATIONS DIAGNOSIS DRUG THERAPY ETIOLOGY METABOLISM PHYSIOPATHOLOGY URINE

HYPERINSULINISM

HYPERPITUITARISM

HYPERTHYROIDISM

HYPOGLYCEMIA

BLOOD CHEMICALLY INDUCED COMPLICATIONS DIAGNOSIS DRUG THERAPY ETIOLOGY METABOLISM PHYSIOPATHOLOGY THERAPY

HYPOGLYCEMIC AGENTS (NON MESH)

HYPOGONADISM

HYPOPHYSECTOMY

HYPOPITUITARISM

HYPOTHYROIDISM

INSULIN

ADMINISTRATION & DOSAGE ADVERSE EFFECTS ANALYSIS ANTAGONISTS & INHIBITORS BIOSYNTHESIS BLOOD CHEM SYNTHESIS DIAGNOSTIC USE HISTORY ISOLATION & PURIFICATION METABOLISM PHARMACODYNAMICS

2.E.6 PITUITARY DISORDERS

1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES

1.D. GLUCAGON

1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE

1.D.1.1 GLUCAGON, ANALYSIS 1.D.1.3 GLUCAGON, BLOOD 1.D.4.1 GLUCAGON, DIAGNOSTIC USE 1.D.1.2 GLUCAGON, METABOLISM 1.D.3.2 GLUCAGON, PHARMACODYNAMICS 1.D.2.1 GLUCAGON, PHYSIOLOGY 1.D.2.2 GLUCAGON, SECRETION 1.D.4.2 GLUCAGON, THERAPEUTIC USE 1.D.3.3 GLUCAGON, TOXICITY 2.B.2.1 GLUCOCORTICOID

1.F.9.2.2 GLUCOSE, THERAPEUTIC USE

1.E.2 GLUCOSE TOLERANCE TEST

1.E.4 GLYCOSURIA

1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED

1.E.4.2 GLYCOSURIA, COMPLICATIONS

1.E.4.3 GLYCOSURIA, DIAGNOSIS

1.E.4.4 GLYCOSURIA, DRUG THERAPY

1.E.4.5 GLYCOSURIA, ENZYMOLOGY

1.E.4.6 GLYCOSURIA, ETIOLOGY

1.E.4.7 GLYCOSURIA, METABOLISM

1.E.4.8 GLYCOSURIA, OCCURRENCE

1.E.5 GLYCOSURIA, RENAL

2.C.3 THYROID DISORDERS

2.G.2.4 PLACENTAL HORMONES

2.G.2.4 PLACENTAL HORMONES

2.E.1.4 GONADOTROPINS, PITUITARY

2.F. GONADS

2.F.1 OVARY

2.E.6 PITUITARY DISORDERS

2.F.4 GONADAL DISORDERS

2.F.3.2 ESTROGENS

2.G.2 HORMONES

2.G.2.3 HORMONES, ECTOPIC

2.B.2.1.2 HYDROCORTISONE

2.B.2.1.3 OTHER GLUCOCORTICOID

2.B.2.1.3 OTHER GLUCOCORTICOID

2.B.2.1.3 OTHER GLUCOCORTICOID

2.F.3.1 ANDROGENS

2.B.2.1.3 OTHER GLUCOCORTICOID

2.F.3.2 PROGESTATIONAL HORMONES

2.B.5 ADRENAL DISORDERS

1.E.3 HYPERGLYCEMIA

1.E.3.1 HYPERGLYCEMIA, BLOOD

1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED

1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS

1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS

1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY

1.E.3.6 HYPERGLYCEMIA, ETIOLOGY

1.E.3.7 HYPERGLYCEMIA, METABOLISM

1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY

1.E.3.9 HYPERGLYCEMIA, URINE

1.E.4 HYPERINSULINISM

2.E.6 PITUITARY DISORDERS

2.C.3 THYROID DISORDERS

1.E.6 HYPOGLYCEMIA

1.E.6.1 HYPOGLYCEMIA, BLOOD

1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED

1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS

1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS

1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY

1.E.6.6 HYPOGLYCEMIA, ETIOLOGY

1.E.6.7 HYPOGLYCEMIA, METABOLISM

1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY

1.E.6.9 HYPOGLYCEMIA, THERAPY

1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED

2.F.4 GONADAL DISORDERS

2.E.5 HYPOPHYSECTOMY

2.E.6 PITUITARY DISORDERS

2.C.3 THYROID DISORDERS

1.C. INSULIN

1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE

1.C.3.3 INSULIN, ADVERSE EFFECTS

1.C.1.2 INSULIN, ANALYSIS

1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS

1.C.1.4 INSULIN, BIOSYNTHESIS

1.C.1.6 INSULIN, BLOOD

1.C.1.3 INSULIN, CHEMICAL SYNTHESIS

1.C.7.1 INSULIN, DIAGNOSTIC USE

1.C.8 INSULIN, HISTORY

1.C.1.1 INSULIN, ISOLATION AND PURIFICATION

1.C.1.5 INSULIN, METABOLISM

1.C.3.1 INSULIN, PHARMACODYNAMICS

PHYSIOLOGY

SECRETION

THERAPEUTIC USE

URINE

INSULIN ANTIBODIES

INSULIN COMA

INSULIN, GLOBIN ZINC

INSULIN, ISOPHANE

INSULIN, LENTE

INSULIN, PROTAMINE ZINC

INSULIN RESISTANCE

INVERTEBRATE HORMONES

ISLANDS OF LANGERHANS

ANALYSIS

ANATOMY & HISTOLOGY

BLOOD SUPPLY

CYTOLOGY

DRUG EFFECTS

EMBRYOLOGY

ENZYMOLGY

GROWTH & DEVELOPMENT

INNERVATION

METABOLISM

PATHOLOGY

PHYSIOLOGY

PHYSIOPATHOLOGY

SECRETION

ISLET CELL TUMOR

JUVENILE HORMONES

17-KETOSTEROIDS

KIMMELSTIEL-WILSON SYNDROME

KLINEFELTERS SYNDROME

LEYDIG CELL TUMOR

LEYDIG CELLS

LH

LH-FSH RELEASING HORMONE

LYNETHRENOL

MEDROXYPROGESTERONE

MELATONIN

MESTRANOL

METAHEXAMIDE

METFORMIN

METHANDROSTENOLONE

METHYLPREDNISOLONE

METHYLTESTOSTERONE

METHYLTHIOURACIL

MINERALOCORTICIDS

MSH

MYXEDEMA

NANDROLONE

NOREPINEPHRINE

NORETHANDROLONE

NORETHINDRONE

NORETHYNODREL

NORMETHANDROLONE

OBESITY IN DIABETES

OVARIAN CYSTS

OVARIAN DISEASES

OVARIAN NEOPLASMS

OVARY

OXANDROLONE

OXYMETHOLONE

OXYTOXICS

OXYTOCIN

PANCREAS

ANALYSIS

BLOOD SUPPLY

CYTOLOGY

DRUG EFFECTS

EMBRYOLOGY

ENZYMOLGY

INNERVATION

METABOLISM

1.C.2.1 INSULIN, PHYSIOLOGY

1.C.2.2 INSULIN, SECRETION

1.F.9.3.2 INSULIN, THERAPEUTIC USE

1.C.1.7 INSULIN, URINE

1.C.5 INSULIN ANTIBODIES

1.C.4.1 INSULIN COMA

1.F.9.3.2 INSULIN, THERAPEUTIC USE

1.F.9.3.2 INSULIN, THERAPEUTIC USE

1.F.9.3.2 INSULIN, THERAPEUTIC USE

1.C.6 INSULIN RESISTANCE

2.G.2.3 HORMONES, ECTOPIC

1.A. ISLANDS OF LANGERHANS

1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY

RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY

RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY

RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY

RELATED

1.A.4 ISLANDS OF LANGERHANS,

PHARMACOLOGY RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY

RELATED

1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY

RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY

RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY

RELATED

1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY

RELATED

1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY

RELATED

1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY

RELATED

1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY

RELATED

1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY

RELATED

1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY

RELATED

2.G.2.6 JUVENILE HORMONES

2.B.2.1.3 OTHER GLUCOCORTICOID

1.F.6.3 DIABETIC NEPHROPATHIES

2.F.4 GONADAL DISORDERS

2.F.4 GONADAL DISORDERS

2.F.2 TESTIS

2.E.1.4 GONADOTROPINS, PITUITARY

2.E.1.4 GONADOTROPINS, PITUITARY

2.F.3.2 PROGESTATIONAL HORMONES

2.F.3.2 PROGESTATIONAL HORMONES

2.E.3 PITUITARY HORMONES, INTERMEDIATE

2.F.3.2 ESTROGENS

1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES

1.F.9.4.5 OTHER BIGUANIDES

2.F.3.1 ANDROGENS

2.B.2.1.3 OTHER GLUCOCORTICOID

2.F.3.1 ANDROGENS

2.C.2 THYROID ANTAGONISTS

2.B.2.2 MINERALOCORTICOID

MEDLARS Terms Included in Hierarchical Index

PATHOLOGY
 PHYSIOLOGY
 PHYSIOPATHOLOGY
 SECRETION
 TRANSPLANTATION
 PANCREATECTOMY
 PANCREATIC DISEASES
 PANCREATIC EXTRACTS
 PANCREATIC HORMONES
 PANCREOZYMIN
 PARAMETHASONE
 PARATHYROID DISEASES
 PARATHYROID GLANDS
 PARATHYROID HORMONE
 PHENFORMIN
 PINEAL BODY
 PITUITARY-ADRENAL SYSTEM
 PITUITARY GLAND
 PITUITARY HORMONE RELEASING
 HORMONES
 PITUITARY HORMONES, ANTERIOR
 PITUITARY HORMONES, POSTERIOR
 PLACENTA DISORDERS
 PLACENTAL HORMONES
 PREDIABETIC STATE
 PREDNISOLONE
 PREGNANCY
 PREGNANCY IN DIABETES
 PREGNANEDIOL
 PREGNANETRIOL
 PREGNENOLONE
 PROGESTATIONAL HORMONES
 PROGESTERONE
 PROINSULIN
 PROLACTIN
 PROPYLTHIOURACIL
 PROSTAGLANDINS
 PUBERTY, PRECOCIOUS
 RECEPTORS, HORMONE
 RELAXIN
 SACCHARIN
 SECRETIN
 SECRETORY RATE
 SERTOLI CELL TUMOR
 SERTOLI CELLS
 SEX DIFFERENTIATION DISORDERS
 SEX HORMONES
 SHEEHAN'S SYNDROME
 SKIN ULCER
 SOMATOTROPIN
 SOMATOTROPIN RELEASING HORMONE
 STANOLONE
 STANZOLOL
 TESTICULAR DISEASES
 TESTICULAR FEMINIZATION
 TESTICULAR NEOPLASMS
 TESTIS
 TESTOSTERONE
 THIOCYANATES
 THIOURACIL
 THIOUREA
 THYROID ANTAGONISTS
 THYROID CRISIS
 THYROID GLAND
 THYROID HORMONES
 THYROIDITIS
 THYROIDITIS, LYMPHOMATOUS
 THYRONINE
 THYROTROPIN
 THYROTROPIN RELEASING HORMONE
 THYROXINE
 TOLAZAMIDE
 TOLBUTAMIDE
 TRIAMCINOLONE
 TRIIODOTHYRONINE
 TURNER'S SYNDROME
 VASOPRESSIN
 VIRILISM
 WATERHOUSE-FRIDERICHSEN SYNDROME

1.B.5 PANCREAS, PATHOLOGY RELATED
 1.B.3 PANCREAS, PHYSIOLOGY RELATED
 1.B.3 PANCREAS, PHYSIOLOGY RELATED
 1.B.3 PANCREAS, PHYSIOLOGY RELATED
 1.B.6.1 PANCREAS, TRANSPLANTATION
 1.B.6.2 PANCREATECTOMY
 1.B.5 PANCREAS, PATHOLOGY RELATED
 1.B.4 PANCREAS, PHARMACOLOGY RELATED
 1.B.2 PANCREAS, BIOCHEMISTRY RELATED
 2.G.2.1 GASTROINTESTINAL HORMONES
 2.B.2.1.3 OTHER GLUCOCORTICOID
 2.D PARATHYROID GLANDS
 2.D PARATHYROID GLANDS
 2.D PARATHYROID GLANDS
 1.F.9.4.4 PHENFORMIN
 2.G.4 PINEAL BODY
 2.G.5 PITUITARY-ADRENAL SYSTEM
 2.E PITUITARY GLAND
 2.E.4 PITUITARY HORMONE RELEASING FACTORS
 2.E.1 PITUITARY HORMONES, ANTERIOR
 2.E.2 PITUITARY HORMONES, POSTERIOR
 1.F.6.8 PREGNANCY IN DIABETES
 2.G.2.4 PLACENTAL HORMONES
 1.F.7.5 PREDIABETIC STATE
 2.B.2.1.3 OTHER GLUCOCORTICOID
 2.B.2.1.3 OTHER GLUCOCORTICOID
 1.F.6.8 PREGNANCY IN DIABETES
 1.F.6.8 PREGNANCY IN DIABETES
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.B.2.1.3 OTHER GLUCOCORTICOID
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.B.2.1.3 OTHER GLUCOCORTICOID
 2.F.3.3.2 PROGESTATIONAL HORMONES
 2.F.3.3.2 PROGESTATIONAL HORMONES
 1.C.1.4 INSULIN, BIOSYNTHESIS
 2.E.1.4 GONADOTROPINS, PITUITARY
 2.C.2 THYROID ANTAGONISTS
 2.G.2.2 PROSTAGLANDINS
 2.F.4 GONADAL DISORDERS
 2.G.2 HORMONES
 2.G.2.5 RELAXIN
 1.F.9.2.8 SACCHARIN
 2.G.2.1 GASTROINTESTINAL HORMONES
 2.G.6 SECRETORY RATE
 2.F.4 GONADAL DISORDERS
 2.F.2 TESTIS
 2.F.4 GONADAL DISORDERS
 2.F.3 SEX HORMONES
 2.E.6 PITUITARY DISORDERS
 1.F.6.2 DIABETIC ANGIOPATHIES
 2.E.1.2 SOMATOTROPIN
 2.E.1.2 SOMATOTROPIN
 2.F.3.1 ANDROGENS
 2.F.3.1 ANDROGENS
 2.F.4 GONADAL DISORDERS
 2.F.4 GONADAL DISORDERS
 2.F.4 GONADAL DISORDERS
 2.F.2 TESTIS
 2.F.3.1 ANDROGENS
 2.C.2 THYROID ANTAGONISTS
 2.C.2 THYROID ANTAGONISTS
 2.C.2 THYROID ANTAGONISTS
 2.C.2 THYROID ANTAGONISTS
 2.C.3 THYROID DISORDERS
 2.C THYROID GLAND
 2.C.1 THYROID HORMONES
 2.C.3 THYROID DISORDERS
 2.C.3 THYROID DISORDERS
 2.C.1 THYROID HORMONES
 2.E.1.3 THYROTROPIN
 2.E.4 PITUITARY HORMONE RELEASING FACTORS
 2.C.1 THYROID HORMONES
 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
 1.F.9.4.2 TOLBUTAMIDE
 2.B.2.1.3 OTHER GLUCOCORTICOID
 2.C.1 THYROID HORMONES
 2.F.4 GONADAL DISORDERS
 2.E.2 PITUITARY HORMONES, POSTERIOR
 2.F.4 GONADAL DISORDERS
 2.B.5 ADRENAL DISORDERS

SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

1.A ISLANDS OF LANGERHANS

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1123-8, Dec 76 (Eng) DL/77MAR128

PREPARATION AND CHARACTERIZATION OF PLASMA MEMBRANE-ENRICHED FRACTIONS FROM RAT PANCREATIC ISLETS. Lernmark A, Nathans A, Steiner DF *J Cell Biol* 71: 606-23, Nov 76 (Eng) DL/77MAR168

[ARTIFICIAL PANCREATIC BETA CELLS--THE PRESENT STATUS AND PROSPECT] Shichiri M, Kawamori T, Goriya Y, Shigeta Y *Jpn J Clin Med* 34: 2886-93, 10 Sep 76 (Jpn) DL/77MAR224

PANCREATIC ISLET-CELL AUTOIMMUNITY [LETTER]. Del Prete GF, Betterle C, Bersani G, Romano M, Tiengo A *Lancet* 2: 1090, 13 Nov 76 (Eng) DL/77MAR239

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

DIABETES MELLITUS AND AUTOIMMUNITY [EDITORIAL]. Anonymous *Lancet* 2: 1124-5, 20 Nov 76 (Eng) DL/77MAR241

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lennik MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

PASSIVE ENHANCEMENT OF ISOLATED PANCREATIC ISLET ALLOGRAFTS. Finch DR, Morris PJ *Transplantation* 22: 508-12, Nov 76 (Eng) DL/77MAR362

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

TRANSPLANTATION OF THE PANCREAS. Liljehei RC, Ruix JO, Aquino C, Goetz F *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 303-20, 1976 (Eng) DL/77MAR419

HUMORAL AUTOIMMUNITY IN DIABETES MELLITUS. Bottazzo GF, Doniach D, Pouplard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 55-64, 1976 (Eng) DL/77MAR420

ORGAN-SPECIFIC CELL-MEDIATED AUTOIMMUNITY IN DIABETES MELLITUS. Irvine WJ, Mac Cuish AC, Campbell CJ, Duncan LJ *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 65-76, 1976 (Eng) DL/77MAR421

[SURGICAL PROBLEMS IN THE TREATMENT OF DIABETICS. PRESENT STATE AND FUTURE PROSPECTS (AUTHORS TRANSL)] Redding R, Lorenz D *Ann Chir* 30: 811-6, Oct 76 (Fre) DL/77MAR463

1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED

ISOLATION AND PRESERVATION OF ISLETS FROM THE MOUSE, RAT, GUINEA-PIG AND HUMAN PANCREAS. Ferguson J, Allsopp RH, Taylor RM, Johnston ID *Br J Surg* 63: 767-73, Oct 76 (Eng) DL/77MAR13

INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS. Helmstaedt V, Feurle GE, Forssmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PANCREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

PANCREATIC APUD CELLS IN OLDER CHICK EMBRYOS, WITH SPECIAL REFERENCE TO THEIR IDENTITY. Andrew A *Histochemistry* 49: 213-9, 29 Oct 76 (Eng) DL/77MAR166

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189*

REGENERATION OF ISLET CELLS. Hellerstrom C, Andersson A, Gunnarsson R *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 145-60, 1976 (Eng) [73] DL/77MAR406

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

ADRENOCORTICAL-RELATED MATURATIONAL EVENTS IN THE FETUS. Liggins GC *Am J Obstet Gynecol* 126: 931-41, 1 Dec 76 (Eng) [68] DL/77MAR445

1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED

NON-SATURABLE-CO-OPERATIVE BINDING OF TOLBUTAMIDE TO ISOLATED ISLETS OF LANGERHANS [PROCEEDINGS]. Alric R, Lignon F, Loubatieres AL, Manteghetti M, Puech R *Br J Pharmacol* 58: 450p, Nov 76 (Eng) DL/77MAR12

ISOLATION AND PRESERVATION OF ISLETS FROM THE MOUSE, RAT, GUINEA-PIG AND HUMAN PANCREAS. Ferguson J, Allsopp RH, Taylor RM, Johnston ID *Br J Surg* 63: 767-73, Oct 76 (Eng) DL/77MAR13

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D] (Paris)* 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PANCREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Sehlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Kiatt D, Prehn S, Hahn V, Hohne WE *FEBs Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

INSULIN OF INDIAN SHEEP & GOAT PANCREATIC TISSUE-ISOLATION AND CONTENT. Yadava HS, Ali Z *Indian J Exp Biol* 14: 90-4, Mar 76 (Eng) DL/77MAR155

ULTRASTRUCTURAL LOCALIZATION OF ADENYL CYCLASE ACTIVITY IN THE PANCREAS OF TWO AMPHIBIAN SPECIES (SALAMANDRA SALAMANDRA L. AND RANA ESCULENTA L.). Trandaburu T *Histochemistry* 48: 1-6, 30 Jul 76 (Eng) DL/77MAR165

1.A ISLANDS OF LANGERHANS

PANCREATIC APUD CELLS IN OLDER CHICK EMBRYOS, WITH SPECIAL REFERENCE TO THEIR IDENTITY. Andrew A *Histochemistry* 49: 213-9, 29 Oct 76 (Eng) DL/77MAR166

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

EFFECT OF ALLOXAN ON ISLET TISSUE PERMEABILITY: PROTECTION AND REVERSAL BY DITHIOLS. Watkins D, Cooperstein SJ *J Pharmacol Exp Ther* 199: 575-82, Dec 76 (Eng) DL/77MAR201

PHOSPHORYLATION REACTIONS IN ISLETS OF LANGERHANS. Muller WA, Amherdt ML, Vachon AC, Renold AE *J Physiol (Paris)* 72: 711-20, Nov 76 (Eng) DL/77MAR203

CURRENT ASPECTS OF AETIOLOGY AND DIAGNOSIS IN DIABETES MELLITUS. Turtle JR *Med J Aust* 2: 458-60, 18 Sep 76 (Eng) DL/77MAR256

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *Pfuegers Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

[PROINSULIN] Labadie P *Rev Prat* 26: 3856-60, 21 Nov 76 (Fre) DL/77MAR333

TISSUE CULTURE OF ISOLATED PANCREATIC ISLETS. Andersson A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 283-94, 1976 (Eng) [58] DL/77MAR417

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Sehlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A,

Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76 (Eng) DL/77MAR75

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteclouverture M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

REGULATION BY GLUCOSE AND CYCLIC NUCLEOTIDES OF THE GLUCAGON AND INSULIN RELEASE INDUCED BY AMINO ACIDS. Jarrouse C, Rosselin G *Diabete Metab* 1: 135-42, Sep 75 (Eng) DL/77MAR95

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandirana G, Di Campo-Rougerie C, Mahmoud F *Diabete Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL)] Luyckx A *Diabete Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL)] Girard J, Ferre P, Gilbert M *Diabete Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106

CALCIUM ANTAGONISTS AND ISLET FUNCTION. VIII. THE EFFECT OF MAGNESIUM. Malaisse WJ, Devis G, Herchuelz A, Sener A, Somers G *Diabete Metab* 2: 1-4, Mar 76 (Eng) DL/77MAR107

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabete Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975.* (Eng) DL/77MAR189

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Bessman SP *J Physiol (Paris)* 72: 721-8, Nov 76 (Eng) DL/77MAR204

STUDIES ON THE FUNCTION OF PANCREATIC ISLET CELL MEMBRANES. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *J Physiol (Paris)* 72: 729-46, Nov 76 (Eng) DL/77MAR205

POTASSIUM IONS AND INSULIN RELEASE. Henquin JC, Lambert AE *J Physiol (Paris)* 72: 747-56, Nov 76 (Eng) DL/77MAR206

ELECTRICAL CHARACTERISTICS OF THE BETA-CELLS IN PANCREATIC ISLETS. Meissner HP *J Physiol (Paris)* 72: 757-67, Nov 76 (Eng) DL/77MAR207

DYNAMIC CHARACTERISTICS OF ELECTRICAL ACTIVITY IN PANCREATIC BETA-CELLS. I. - EFFECTS OF CALCIUM AND MAGNESIUM REMOVAL. Atwater I, Beigelman PM *J Physiol (Paris)* 72: 769-86, Nov 76 (Eng) DL/77MAR208

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

INSULIN SECRETION BY HUMAN PANCREAS CULTURED FOR ONE YEAR. Hollande E, Giron BJ, Rey F, Dutrillaux MC *J Physiol (Paris)* 72: 815-32, Nov 76 (Eng) DL/77MAR212

POLYARTERITIS NODOSA INDUCED IN ARTERIOSCLEROTIC, MALE AND FEMALE BREEDER RATS BY CHRONIC ALLOXAN DIABETES. Wesler BC *Paroi Arterielle* 2: 221-39, May 75 (Eng) DL/77MAR302

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *Pfuegers Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

REGENERATION OF ISLET CELLS. Hellerstrom C, Andersson A, Gunnarsson R *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 145-60, 1976 (Eng) [73] DL/77MAR406

TISSUE CULTURE OF ISOLATED PANCREATIC ISLETS. Andersson A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 283-94, 1976 (Eng) [58] DL/77MAR417

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijk B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng) DL/77MAR433

1.A.4 ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Sehlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

1.B PANCREAS

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteconviture M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandirana G, Di Campo-Rougerie C, Mahmoud F *Diabete Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

CALCIUM ANTAGONISTS AND ISLET FUNCTION. VIII. THE EFFECT OF MAGNESIUM. Malaisse WJ, Devis G, Herchuelz A, Sener A, Somers G *Diabete Metab* 2: 1-4, Mar 76 (Eng) DL/77MAR107

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L. PART I--THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

EFFECT OF ALLOXAN ON ISLET TISSUE PERMEABILITY: PROTECTION AND REVERSAL BY DITHIOLS. Watkins D, Cooperstein SJ *J Pharmacol Exp Ther* 199: 575-82, Dec 76 (Eng) DL/77MAR201

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Bessman SP *J Physiol (Paris)* 72: 721-8, Nov 76 (Eng) DL/77MAR204

POTASSIUM IONS AND INSULIN RELEASE. Henquin JC, Lambert AE *J Physiol (Paris)* 72: 747-56, Nov 76 (Eng) DL/77MAR206

AN APPROACH TO A MOLECULAR UNDERSTANDING OF EXOCYTIC INSULIN RELEASE. Lazarus NR, Davis B, O'Connor KJ *J Physiol (Paris)* 72: 787-94, Nov 76 (Eng) DL/77MAR209

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLHYDANTOIN. Mackerer CR, Saunders RN, Haettinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217

HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijs B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 23: 339-46, 1975 (Eng) DL/77MAR433

ADRENOCORTICAL-RELATED MATURATIONAL EVENTS IN THE FETUS. Liggins GC *Am J Obstet Gynecol* 126: 931-41, 1 Dec 76 (Eng) [68] DL/77MAR445

1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

FLUORESCENCE HISTOCHEMICAL STUDY OF THE PANCREAS IN THE CAT. Onda M *Gastroenterol Jpn* 11: 246-61, 1976 (Eng) DL/77MAR131

CONNECTING (C)-PEPTIDE--A SPIN-OFF OF INSULIN SECRETION [EDITORIAL]. Vaisrub S *JAMA* 236: 2888, 20 Dec 76 (Eng) DL/77MAR220

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JJ, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER)] Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

[MYOCARDITIS AND INSULITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hofmann W, Waldherr R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH,

CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

INSULIN INDUCED INSULITIS. Kloppel G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 107-21, 1976 (Eng) DL/77MAR403

VIRUS INDUCED INSULITIS IN EXPERIMENTAL ANIMAL MODELS. Craighead JE *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 123-8, 1976 (Eng) DL/77MAR404

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

ISLET CHANGES SUGGESTING A POSSIBLE IMMUNE AETIOLOGY OF HUMAN DIABETES MELLITUS. Gepts W *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 95-106, 1976 (Eng) [124] DL/77MAR422

A HISTOPATHOLOGICAL STUDY ON THE ISLETS OF LANGERHANS AND DUCTAL EPITHELIAL METAPLASIA IN ATROPHIC LOBULI OF PANCREAS. Suda K, Komatsu K, Hashimoto K *Acta Pathol Jpn* 26: 561-72, Sep 76 (Eng) DL/77MAR429

1.B PANCREAS

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

1.B.1 PANCREAS, ANATOMY RELATED

FLUORESCENCE HISTOCHEMICAL STUDY OF THE PANCREAS IN THE CAT. Onda M *Gastroenterol Jpn* 11: 246-61, 1976 (Eng) DL/77MAR131

ULTRASTRUCTURAL LOCALIZATION OF ADENYL CYCLASE ACTIVITY IN THE PANCREAS OF TWO AMPHIBIAN SPECIES (SALAMANDRA SALAMANDRA L. AND RANA ESCULENTA L.). Trandaburu T *Histochemistry* 48: 1-6, 30 Jul 76 (Eng) DL/77MAR165

[MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY] Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388

1.B.2 PANCREAS, BIOCHEMISTRY RELATED

1.B PANCREAS

[APPEARANCE OF GLUCAGON-PRODUCING CELLS IN THE ENDODERM OF THE ALLANTOIS ASSOCIATED WITH INTESTINAL AND PANCREATIC MESENCHYME] Yasugi S *C R Acad Sci [D] (Paris)* 283: 383-5, 13 Sep 76 (Fre) DL/77MAR38

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE. Patel JC, Orci L, Bankier A, Cameron DP *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hautecouverture M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1123-8, Dec 76 (Eng) DL/77MAR128

ULTRASTRUCTURAL LOCALIZATION OF ADENYL CYCLASE ACTIVITY IN THE PANCREAS OF TWO AMPHIBIAN SPECIES (SALAMANDRA SALAMANDRA L. AND RANA ESCULENTA L.). Trandaburu T *Histochemistry* 48: 1-6, 30 Jul 76 (Eng) DL/77MAR165

SOME PROBLEMS INVOLVED IN POSTEMBEDDING STAINING. PP. 109-15. Vogt A, Tkamiya H, Kim WA In: Feldman C, et al., ed. *Immunocytochemical techniques*. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR190

PORTAL VENOUS GOODIES AND FULMINANT VIRAL HEPATITIS [EDITORIAL]. Sherlock S *N Engl J Med* 295: 1535-6, 30 Dec 76 (Eng) DL/77MAR269

[MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY] Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388

[HEMODYNAMICS, METABOLISM AND FUNCTION OF THE PERFUSED PANCREAS UNDER NORMAL TEMPERATURE] Meyer W, Petersen H *Z Exp Chir* 9: 113-9, 1976 (Ger) DL/77MAR391

PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

FIBER CONNECTIONS IN THE HYPOTHALAMUS AND SOME AUTONOMIC FUNCTIONS. Ban T *Pharmacol Biochem Behav* 3: 3-13, 1975 (Eng) *DL/77MAR525

1.B.3 PANCREAS, PHYSIOLOGY RELATED

THE ROLE OF INSULIN IN THE GLUCOSTATIC CONTROL OF FOOD INTAKE. Rezek M *Can J Physiol Pharmacol* 54: Oct 76 (Eng) [97] DL/77MAR22

INTERACTION OF CALCIUM AND GLUCOSE ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M *Diabetes* 25: 1018-25, Nov 76 (Eng) DL/77MAR115

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

[CLINICAL SIGNIFICANCE OF THE TESTS USED IN THE DIAGNOSIS OF PANCREATIC DISEASES] Lenti G, Emanuelli G *Minerva Med* 67: 3661-70, 14 Nov 76 (Ita) DL/77MAR289

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

[MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY] Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388

[HEMODYNAMICS, METABOLISM AND FUNCTION OF THE PERFUSED PANCREAS UNDER NORMAL TEMPERATURE] Meyer W, Petersen H *Z Exp Chir* 9: 113-9, 1976 (Ger) DL/77MAR391

TRANSPLANTATION OF THE PANCREAS. Lil-lehei RC, Ruiz JO, Aquino C, Goetz F *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 303-20, 1976 (Eng) DL/77MAR419

1.B.4 PANCREAS, PHARMACOLOGY RELATED

INTERACTION OF CALCIUM AND GLUCOSE ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLHYDANTOIN. Mackerer CR, Saunders RN, Haettinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217

[EVALUATION IN CHILDREN OF THE CLINICAL, BIOLOGICAL AND ELECTROENCEPHALOGRAPHIC SIDE EFFECTS OF L-ASPARAGINASE] Olive D, Cartault F, Legras B, Neimann N *Pediatrics* 31: 259-78, Apr 76 (Fre) DL/77MAR307

EFFECTS OF SUBSACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacew S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

1.B.5 PANCREAS, PATHOLOGY RELATED

[DIABETES MELLITUS SECONDARY TO LIVER DISEASES. A REVIEW (AUTHORS TRANSL)] Guillon J, Charbonnel B *Diabete Metab* 1: 191-9, Sep 75 (Fre) [58] DL/77MAR101

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL)] Luyckx A *Diabete Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

FLUORESCENCE HISTOCHEMICAL STUDY OF THE PANCREAS IN THE CAT. Onda M *Gastroenterol Jpn* 11: 246-61, 1976 (Eng) DL/77MAR131

[CLINICAL SIGNIFICANCE OF THE TESTS USED IN THE DIAGNOSIS OF PANCREATIC DISEASES] Lenti G, Emanuelli G *Minerva Med* 67: 3661-70, 14 Nov 76 (Ita) DL/77MAR289

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

1.B.6 PANCREAS, SURGERY RELATED

1.B.6.1 PANCREAS, TRANSPLANTATION

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Colliste H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

TRANSPLANTATION OF THE PANCREAS. Lil-lehei RC, Ruiz JO, Aquino C, Goetz F *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 303-20, 1976 (Eng) DL/77MAR419

RESTITUTION OF STREPTOZOTOCIN INDUCED DIABETES MELLITUS IN NUDE MICE WITH PANCREATIC GRAFTS FROM THE RAT. Buschard K, Rygaard J *Acta Pathol Microbiol Scand [C]* 84: 221-6, Jun 76 (Eng) DL/77MAR431

1.B.6.2 PANCREATECTOMY

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M *Diabetes* 25: 1018-25, Nov 76 (Eng) DL/77MAR115

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATECTOMIZED PATIENTS (AUTHORS TRANSL)] Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

[EFFECT OF GLUCAGON ADMINISTRATION ON BLOOD GLUCOSE LEVEL IN TOTALLY DEPANCREATIZED DOGS (AUTHORS TRANSL)] Nishimura I *Arch Jpn Chir* 45: 390-7, 1 Sep 76 (Jpn) DL/77MAR467

1.C INSULIN

1.C INSULIN

PROTEASE I FROM *ESCHERICHIA COLI*. SOME PHYSICO-CHEMICAL PROPERTIES AND SUBSTRATE SPECIFICITY. Pacaud M, Sibilli S, Bras G *Eur J Biochem* 69: 141-51, 1 Oct 76 (Eng) DL/77MAR65

INFLUENCE OF SOMATOSTATIN ON CARBOHYDRATE DISPOSAL AND ABSORPTION IN DIABETES MELLITUS. Wahren J *Lancet* 2: 1213-6, 4 Dec 76 (Eng) DL/77MAR244

TWO MINUTES WITH DIABETES. Whitehouse FW *Med Times* 104: 97-8, Dec 76 (Eng) DL/77MAR249

VIRUS INDUCED INSULITIS IN EXPERIMENTAL ANIMAL MODELS. Craighead JE *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 123-8, 1976 (Eng) DL/77MAR404

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

1.C.1 INSULIN, BIOCHEMISTRY RELATED

1.C.1.1 INSULIN, ISOLATION AND PURIFICATION

PREPARATION OF A CRYSTALLINE A1-(2-NITRO-4-TRIMETHYLAMMONIOPHENYL) DERIVATIVE OF BOVINE INSULIN. Sutton DA, Easter BR, Drewes SE *Hoppe Seylers Z Physiol Chem* 357: 971-6, Jul 76 (Eng) DL/77MAR146

INSULIN OF INDIAN SHEEP & GOAT PANCREATIC TISSUE-ISOLATION AND CONTENT. Yadava HS, Ali Z *Indian J Exp Biol* 14: 90-4, Mar 76 (Eng) DL/77MAR155

1.C.1.2 INSULIN, ANALYSIS

INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS. Helmsdaetder V, Feurle GE, Forssmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1122-8, Dec 76 (Eng) DL/77MAR128

SEPARATION OF THE TWO DOUBLE-CHAIN BOVINE INTERMEDIATES OF THE PROINSULIN-INSULIN CONVERSION I. CHEMICAL, IMMUNOCHEMICAL, CIRCULAR DICHROISM, AND BIOLOGICAL CHARACTERIZATION. Markussen J, Hedling LG *Int J Pept Protein Res* 8: 597-606, 1976 (Eng) DL/77MAR156

SOME PROBLEMS INVOLVED IN POSTEMBEDDING STAINING. PP. 109-15. Vogt A, Tkamiya H, Kim WA *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975.* (Eng) DL/77MAR190

IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL.) Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

1.C.1.3 INSULIN, CHEMICAL SYNTHESIS

PREPARATION OF A CRYSTALLINE TRIS-(N-METHYLPYRIDINIUM)-DERIVATIVE OF BOVINE INSULIN. Drewes SE, Sutton DA *Hoppe Seylers Z Physiol Chem* 357: 1261-6, Sep 76 (Eng) DL/77MAR148

[(A1-BETA-ALANINE) INSULIN] Geiger R, Geisen K, Regitz G, Summ HD *Hoppe Seylers Z Physiol Chem* 357: 1267-70, Sep 76 (Ger) DL/77MAR149

1.C.1.4 INSULIN, BIOSYNTHESIS

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE *FEBS Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL.)] Freychet P *Diabete Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77MAR86

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

SEPARATION OF THE TWO DOUBLE-CHAIN BOVINE INTERMEDIATES OF THE PROINSULIN-INSULIN CONVERSION I. CHEMICAL, IMMUNOCHEMICAL, CIRCULAR DICHROISM, AND BIOLOGICAL CHARACTERIZATION. Markussen J, Hedling LG *Int J Pept Protein Res* 8: 597-606, 1976 (Eng) DL/77MAR156

EFFECT OF ANTECEDENT HORMONE ADMINISTRATION ON LIPOLYSIS IN THE PERFUSED ISOLATED FAT CELL. Solomon SS, Duckworth WC *J Lab Clin Med* 88: 984-94, Dec 76 (Eng) DL/77MAR193

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JI, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

[PROINSULIN] Labadie P *Rev Prat* 26: 3856-60, 21 Nov 76 (Fre) DL/77MAR333

TISSUE CULTURE OF ISOLATED PANCREATIC ISLETS. Andersson A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 283-94, 1976 (Eng) [58] DL/77MAR417

1.C.1.5 INSULIN, METABOLISM

IN VITRO SYNTHESIS OF AMYLOID FIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E *Isr J Med Sci* 12: 1137-40, Oct 76 (Eng) DL/77MAR1

ISOLATION AND PRESERVATION OF ISLETS FROM THE MOUSE, RAT, GUINEA-PIG AND HUMAN PANCREAS. Ferguson J, Allsopp RH, Taylor RM, Johnston ID *Br J Surg* 63: 767-73, Oct 76 (Eng) DL/77MAR13

STRUCTURE AND FUNCTION OF INSULIN: PREPARATION AND BIOLOGICAL ACTIVITY OF GUINEA PIG DES B-ASP30, DES-A-ASN21-INSULIN. Yip CC, Moule ML *Can J Biochem* 54: 866-71, Oct 76 (Eng) DL/77MAR21

THE ROLE OF INSULIN IN THE GLUCOSTATIC CONTROL OF FOOD INTAKE. Rezek M *Can J Physiol Pharmacol* 54: Oct 76 (Eng) [97] DL/77MAR22

THE PERFUSED ISOLATED LEFT ATRIUM: A PREPARATION FOR STUDIES ON SUGAR TRANSPORT IN THE MYOCARDIUM. Sawh PC, Bihler I *Can J Physiol Pharmacol* 54: 708-13, Oct 76 (Eng) DL/77MAR24

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPHIC CELLS OF THE HUMAN HYPOPHYSIS] Legros F, Massant B, Uytendhoeft P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

CHANGES IN PLASMA AND URINE MAGNESIUM FOLLOWING SUBCUTANEOUS INSULIN. Lindsay R *Curr Med Res Opin* 4: 296-302, 1976 (Eng) DL/77MAR45

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL.)] Freychet P *Diabete Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77MAR86

THE INSULIN RECEPTOR: ITS ROLE IN INSULIN RESISTANCE OF OBESITY AND DIABETES. Olefsky JM *Diabetes* 25: 1154-62, Dec 76 (Eng) [83] DL/77MAR130

[(A1-BETA-ALANINE) INSULIN] Geiger R, Geisen K, Regitz G, Summ HD *Hoppe Seylers Z Physiol Chem* 357: 1267-70, Sep 76 (Ger) DL/77MAR149

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBESE-HYPERGLYCEMIC (OB/OB) MICE. Cuendet GS, Loten EG, Jeanrenaud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBESE HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION. Olefsky JM *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181

THE ROLE OF THE KIDNEY IN THE METABOLISM OF PLASMA PROTEINS. PP. 392-405. Strober W, Waldmann TA *Ino Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a.* (Eng) [27] DL/77MAR191

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

1.C INSULIN

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JL, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

PLASMA VOLUMES AND ENTRAPMENT OF PLASMA IN TISSUES OF NORMAL AND INSULIN-IMMUNIZED GUINEA PIGS. Wright PH, Williams V *Proc Soc Exp Biol Med* 153: 92-7, Oct 76 (Eng) DL/77MAR324

EFFECTS OF SUBACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacaw S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

ROLE OF ADENINE MONO- AND DINUCLEOTIDES IN AMMONIA FORMATION IN BRAIN TISSUE. Buniatian GK *Vopr Biokhim Mozga* 10: 5-32, 1975 (Rus) [163] DL/77MAR369

[MUTATIONAL-METABOLIC MODEL OF CARCINOGENESIS AND THE PROGRESSION OF THE NEOPLASTIC PROCESS] Dilman VM *Vopr Onkol* 22: 3-16, 1976 (Rus) DL/77MAR381

[HEMODYNAMICS, METABOLISM AND FUNCTION OF THE PERFUSED PANCREAS UNDER NORMAL TEMPERATURE] Meyer W, Petersen H Z *Exp Chir* 9: 113-9, 1976 (Ger) DL/77MAR391

INSULIN—ANTI-INSULIN COMPLEXES. Folling I *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 199-209, 1976 (Eng) DL/77MAR411

PHAGOCYTIC AND MICROBICIDAL FUNCTION IN DIABETES MELLITUS. Bagdade JD *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 27-34, 1976 (Eng) DL/77MAR416

1.C.1.6 INSULIN, BLOOD

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Bull Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

ANTI-HYPERTENSIVE ACTION, TIME OF ONSET AND EFFECTS ON CARBOHYDRATE METABOLISM OF LABETALOL. Andersson O, Berglund G, Hansson L *Br J Clin Pharmacol* 3: 757-61, Aug 76 (Eng) DL/77MAR4

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS, ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

[GLISOXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Happ J, Beyer J, Ulreich F, Schoffling K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

[INFLUENCE OF HEPARIN ON THE RADIOIMMUNOLOGIC ASSAY OF INSULIN] Schaller K, Harmeyer J, Partale V *Dtsch Tierarztl Wochenschr* 83: 436-8, 5 Oct 76 (Ger) DL/77MAR54

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE. Patel YC, Orci L, Bankier A, Cameron DP *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL.)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

[PROPORTION OF LOW INSULIN RESPONSES TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Vague P, Ramahan-dridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabete Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

[DIABETES MELLITUS SECONDARY TO LIVER DISEASES. A REVIEW (AUTHORS TRANSL.)] Guillon J, Charbonnel B *Diabete Metab* 1: 191-9, Sep 75 (Fre) [58] DL/77MAR101

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL.)] Luyckx A *Diabete Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

THE BREAKFAST TOLERANCE TEST: A RETURN TO PHYSIOLOGY. Lefebvre PJ, Luyckx AS *Diabete Metab* 2: 15-9, Mar 76 (Eng) DL/77MAR109

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabete Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, Odorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

PLASMA INSULIN LEVELS IN TELEOSTS DETERMINED BY A CHARCOAL-SEPARATION RADIOIMMUNOASSAY TECHNIQUE. Thorpe A, Ince BW *Gen Comp Endocrinol* 30: 332-9, Nov 76 (Eng) DL/77MAR134

ABNORMAL GLUCOSE TOLERANCE AND ARGININE TOLERANCE TESTS IN HUNTINGTONS DISEASE. Podolsky S, Leopold NA *Gerontology* 23: 55-63, 1977 (Eng) DL/77MAR136

EFFECT OF DILUTION ON IMMUNOREACTIVE INSULIN ACTIVITY OF HUMAN PLASMA. Sankaran H, Harrington MG Jr *J Med Sci* 145: 359-68, Nov 76 (Eng) DL/77MAR164

INFLUENCE OF GLUCOSE INGESTION ON FUEL-HORMONE RESPONSE DURING PROLONGED EXERCISE. Ahlborg G, Felig P *J Appl Physiol* 41: 683-8, Nov 76 (Eng) DL/77MAR167

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOGLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gordon P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chasson JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

Diabetes Literature—Hierarchical Index

I.C INSULIN

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195

ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLHYDANTOIN. Mackerer CR, Saunders RN, Haettinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217

TERMINATION OF SERUM INSULIN (AND CPR) Nakagawa S *Jpn J Clin Med* 34 suppl: 2281-9, 1976 (Jpn) [127] DL/77MAR228

PHYSIOLOGIC SIGNIFICANCE OF GLUCOCORTICOID AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE. Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253

STRESS-INDUCED INHIBITION OF TRIGLYCERIDE SECRETION IN VIVO SAND RATS (PSAMOMYX OBESUS). Robertson RP, Smith PH *Metabolism* 25: 1583-90, Dec 76 (Eng) DL/77MAR254

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussanger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baraton S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGTT IN CHILDREN] Baraton S, Cerutti F, Miglio C, Altare F *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

[SOME METABOLIC EFFECTS OF SALBUTAMOL] Fassio V, Massara F, Camanni F, Martina V *Minerva Med* 67: 3267, 20 Oct 76 (Ita) DL/77MAR282

[CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT] Enzi G, Muggeo M, Tiengo A *Minerva Med* 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

[CLINICAL SIGNIFICANCE OF THE TESTS USED IN THE DIAGNOSIS OF PANCREATIC DISEASES] Lenti G, Emanuelli G *Minerva Med* 67: 3661-70, 14 Nov 76 (Ita) DL/77MAR289

[METABOLIC ACTIVITY OF THE SMALL-FOETAL NEWBORN INFANT] Sann L *Pediatric* 31: 309-13, Apr 76 (Fre) [43] DL/77MAR308

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENERVATION TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Trietley GJ, Bernardis LL *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

[ADENOSINE CYCLIC 3,5 MONOPHOSPHATE IN CHILDREN WITH DIABETES MELLITUS] Kniazev IA, Golovanova VB, Vakhruusheva LL, Arsenova EN, Ermolenko RI *Vopr Okhr Materin Det* 21: 11-3, Aug 76 (Rus) DL/77MAR375

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruet ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

URBAN TRAFFIC NOISE, CARDIOCIRCULATORY ACTIVITY AND CORONARY RISK FACTORS. di Cantogno L, Dallerba R, Teagno PS, Cocola L *Acta Otolaryngol [Suppl] (Stockh)* 0: 55-63, 1976 (Eng) DL/77MAR426

EVIDENCES FOR A CORRELATION BETWEEN HIPPOCAMPAL RNA AND LEARNING. Izquierdo I *Acta Physiol Lat Am* 25: 324-31, 1975 (Eng) DL/77MAR432

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijk B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng) DL/77MAR433

EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS. Berdanier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

METABOLISM OF KETONE BODIES BY OVINE BRAIN IN VIVO. Kammula RG *Am J Physiol* 231: 1490-4, Nov 76 (Eng) DL/77MAR451

GLUCOSE AND INSULIN RESPONSES IN SHEEP SUBJECTED TO A SECOND EPISODE OF HEMORRHAGIC SHOCK. Fritz SD, Fitts CT, Colwell JA *Am Surg* 42: 899-907, Dec 76 (Eng) DL/77MAR457

[PLASMA LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL.)] Garcia Guerrero

M, del Valle Nunez CJ, de Pesquera FG *An Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lammintausta R, Syvalahti E, Pekkarinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

ENDOGENOUS CALORIC SOURCES AND NITROGEN BALANCE: REGULATION IN POSTOPERATIVE PATIENTS. Gazzaniga AB, Day AT, Barlett RH, Wilson AF *Arch Surg* 111: 1357-61, Dec 76 (Eng) DL/77MAR468

A NOVEL CYCLIC UNDERCAPEPTIDE, WY-40,770, WITH PROLONGED GROWTH HORMONE RELEASE INHIBITING ACTIVITY. Sarantakis D, Teichman J, Lien EL, Fenichel RL *Biochem Biophys Res Commun* 73: 336-42, 22 Nov 76 (Eng) DL/77MAR477

I.C.1.7 INSULIN, URINE

I.C.2 INSULIN, PHYSIOLOGY RELATED

I.C.2.1 INSULIN, PHYSIOLOGY

THE ROLE OF INSULIN IN THE GLUCOSTATIC CONTROL OF FOOD INTAKE. Rezek M *Can J Physiol Pharmacol* 54: Oct 76 (Eng) [97] DL/77MAR22

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chiasson JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

ACTION OF INSULIN AND CELL CALCIUM: EFFECT OF IONOPHORE A23187. Grinstein S, Elij D *J Membr Biol* 29: 313-28, 29 Nov 76 (Eng) DL/77MAR214

PHYSIOLOGIC SIGNIFICANCE OF GLUCOCORTICOID AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

PERSPECTIVES IN PSYCHONEUROENDOCRINOLOGY. Smythies JR *Psychoneuroendocrinology* 1: 317-9, 1976 (Eng) DL/77MAR330

I.C.2.2 INSULIN, SECRETION

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

INTERACTION OF CALCIUM AND GLUCOSE ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Schlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

1.C INSULIN

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A, Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76 (Eng) DL/77MAR75

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabetes Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabetes Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

REGULATION BY GLUCOSE AND CYCLIC NUCLEOTIDES OF THE GLUCAGON AND INSULIN RELEASE INDUCED BY AMINO ACIDS. Jarrousse C, Rosselin G *Diabetes Metab* 1: 135-42, Sep 75 (Eng) DL/77MAR95

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandridona G, Di Campo-Rougerie C, Mahmoud F *Diabetes Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL)] Girard J, Ferre P, Gilbert M *Diabetes Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106

CALCIUM ANTAGONISTS AND ISLET FUNCTION. VIII. THE EFFECT OF MAGNESIUM. Malaisse WJ, Devis G, Herchuelz A, Sener A, Somers G *Diabetes Metab* 2: 1-4, Mar 76 (Eng) DL/77MAR107

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabetes Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatnara SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, Odoriso TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

[EFFECT OF MINERAL WATER ON THE SECRETION OF INSULIN IN AN ACUTE EXPERIMENT] Horni J, Vodza J *Fysiatr Reumatol Vestn* 54: 236-42, Oct 76 (Cze) DL/77MAR145

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C, Ino Feldman C, et al., ed.

Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

INTRACELLULAR MEMBRANE JUNCTIONS DURING THE EXOCYTOSIS OF INSULIN. Dahl G, Berger W, Meissner HP *J Physiol (Paris)* 72: 703-9, Nov 76 (Eng) DL/77MAR202

PHOSPHORYLATION REACTIONS IN ISLETS OF LANGERHANS. Muller WA, Amherdt ML, Vachon AC, Renold AE *J Physiol (Paris)* 72: 711-20, Nov 76 (Eng) DL/77MAR203

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS. 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Bessman SP *J Physiol (Paris)* 72: 721-8, Nov 76 (Eng) DL/77MAR204

STUDIES ON THE FUNCTION OF PANCREATIC ISLET CELL MEMBRANES. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *J Physiol (Paris)* 72: 729-46, Nov 76 (Eng) DL/77MAR205

POTASSIUM IONS AND INSULIN RELEASE. Henquin JC, Lambert AE *J Physiol (Paris)* 72: 747-56, Nov 76 (Eng) DL/77MAR206

ELECTRICAL CHARACTERISTICS OF THE BETA-CELLS IN PANCREATIC ISLETS. Meissner HP *J Physiol (Paris)* 72: 757-67, Nov 76 (Eng) DL/77MAR207

AN APPROACH TO A MOLECULAR UNDERSTANDING OF EXOCYTOTIC INSULIN RELEASE. Lazarus NR, Davis B, O'Connor KJ *J Physiol (Paris)* 72: 787-94, Nov 76 (Eng) DL/77MAR209

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

CONNECTING (C)-PEPTIDE--A SPIN-OFF OF INSULIN SECRETION [EDITORIAL]. Vaisrub S *JAMA* 236: 2888, 20 Dec 76 (Eng) DL/77MAR220

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baratonio S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGTT IN CHILDREN] Baratonio S, Cerutti F, Miglio C, Altare F *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

POLYARTERITIS NODOSA INDUCED IN ARTERIOSCLEROTIC, MALE AND FEMALE BREEDER RATS BY CHRONIC ALLOXAN DIABETES. Wexler BC *Paroi Arterielle* 2: 221-39, May 75 (Eng) DL/77MAR302

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *Fluegers Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

[MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY] Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

REGENERATION OF ISLET CELLS. Hellerstrom C, Andersson A, Gunnarsson R *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 145-60, 1976 (Eng) [73] DL/77MAR406

TISSUE CULTURE OF ISOLATED PANCREATIC ISLETS. Andersson A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 283-94, 1976 (Eng) [58] DL/77MAR417

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijk B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng) DL/77MAR433

1.C.3 INSULIN, PHARMACOLOGY RELATED

1.C.3.1 INSULIN, PHARMACODYNAMICS

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finniv VP, Aleshina LV *Bull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

PHARMACOLOGICAL AGENTS AND ACUTE EXPERIMENTAL HYPERLAEMIA IN THE DOG [PROCEEDINGS]. Loubatieres AL, Ribes G, Valette G *Br J Pharmacol* 58: 429p, Nov 76 (Eng) DL/77MAR11

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Linton SP, Scott PH, Kendall MJ *Br Med J* 2: 877-8, 9 Oct 76 (Eng) DL/77MAR16

STRUCTURE AND FUNCTION OF INSULIN: PREPARATION AND BIOLOGICAL ACTIVITY OF GUINEA PIG DES B-ASP30, DES-ASN21-INSULIN. Yip CC, Moule ML *Can J Biochem* 54: 866-71, Oct 76 (Eng) DL/77MAR21

THE ROLE OF INSULIN IN THE GLUCOSTATIC CONTROL OF FOOD INTAKE. Rezek M *Can J Physiol Pharmacol* 54: Oct 76 (Eng) [97] DL/77MAR22

EFFECT OF ADRENALINE ON SUGAR TRANSPORT IN THE PERFUSED LEFT ATRIUM. Bihler I, Sawh PC *Can J Physiol Pharmacol* 54: 714-8, Oct 76 (Eng) DL/77MAR25

INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HERMORRHAGIC SHOCK. Chaudry IH, Sayeed MM, Baue AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

[CONTROL OF THE REGENERATION OF SMALL PIECES OF THE PLANARIAN DUGESIA TIGRINA BY CYLIC AMP AND GMP NUCLEOTIDES] Lencique PM *C R Acad Sci [D] (Paris)* 283: 1317-9, 8 NOV 76 (Fre) DL/77MAR35

[CHANGES IN FREE FATTY ACID METABOLISM IN RABBITS SUBJECTED TO PROLONGED INSULIN ADMINISTRATION] Marquie G *C R Acad Sci [D] (Paris)* 283: 519-21, 20 Sep 76 (Fre) DL/77MAR39

CHANGES IN PLASMA AND URINE MAGNESIUM FOLLOWING SUBCUTANEOUS INSULIN. Lindsay R *Curr Med Res Opin* 4: 296-302, 1976 (Eng) DL/77MAR45

ACTION OF PROLACTIN ON ORNITHINE DECARBOXYLASE ACTIVITY IN MAMMARY GLAND EXPLANTS OF MICE. Rillema JA *Endocr Res Commun* 3: 297-305, 1976 (Eng) DL/77MAR55

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

REGULATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN UTERINE TISSUE IN ORGAN CULTURE. Keran EE, Barker KL *Endocrinology* 99: 1386-97, Nov 76 (Eng) DL/77MAR60

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3:5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

EFFECT OF INSULIN ON GLUCOSE TRANSPORT IN DMBA-INDUCED MAMMARY TUMORS. Harmon JT, Hilf R *Eur J Cancer* 12: 933-4, Nov 76 (Eng) DL/77MAR67

INTERACTING ACTIONS OF INSULIN AND UNESTERIFIED FATTY ACIDS ON LIPOGENIC ENZYMES IN RAT ADIPOCYTES. Sooranna SR, Saggerson ED *FEBS Lett* 69: 144-8, 15 Oct 76 (Eng) DL/77MAR72

SERUM-FREE CULTIVATION OF THYMUS ORGAN FRAGMENTS. Lumb JR, George YS *Fed Proc* 35: 2555-8, Dec 76 (Eng) DL/77MAR77

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabete Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL)] Girard J, Ferre P, Gilbert M *Diabete Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

ISOLATED MAMMARY HEPATOCYTES IN CULTURE. Jeejeebhoy K, Phillips MJ *Gastroenterology* 71: 1086-96, Dec 76 (Eng) [121] DL/77MAR132

[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhay M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

[THE EFFECT OF AGE ON THE IN VITRO RESPONSE TO INSULIN IN THE RAT. I. GLUCOSE METABOLISM ON THE DIAPHRAGM (AUTHORS TRANSL)] Gommers A, Dehez-Delhay M, Jeanjean M *Gerontology* 23: 134-41, 1977 (Fre) DL/77MAR138

PREPARATION OF A CRYSTALLINE A1-(2-NITRO-4-TRIMETHYLAMMONIOPHENYL) DERIVATIVE OF BOVINE INSULIN. Sutton DA, Easter BR, Drewes SE *Hoppe Seylers Z Physiol Chem* 357: 971-6, Jul 76 (Eng) DL/77MAR146

INFLUENCE OF INSULIN ON LYSOSOMAL ACTIVITY AND UREA PRODUCTION IN ISOLATED PARENCHYMAL CELLS FROM RAT LIVER. Grammelvedt R, Berg T *Hoppe Seylers Z Physiol Chem* 357: 977-81, Jul 76 (Eng) DL/77MAR147

METABOLISM OF GLYCOGEN IN THE SCORPION HETEROMETRUS SCABER (THOR.). Vijayalekshmi NR, Kurup PA *Indian J Exp Biol* 14: 124-6, Mar 76 (Eng) DL/77MAR152

RESPONSES OF MAMMARY CELLS TO HORMONES. Banerjee MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

EFFECT OF ANTECEDENT HORMONE ADMINISTRATION ON LIPOLYSIS IN THE PERFUSED ISOLATED FAT CELL. Solomon SS, Duckworth WC *J Lab Clin Med* 88: 984-94, Dec 76 (Eng) DL/77MAR193

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

PORTAL VENOUS GOODIES AND FULMINANT VIRAL HEPATITIS (EDITORIAL). Sherlock S *N Engl J Med* 295: 1535-6, 30 Dec 76 (Eng) DL/77MAR269

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

STOMACH MOTILITY IN INSULIN-TREATED SHEEP. Ali TM, Nicholson T, Singleton AG *Q J Exp Physiol* 61: 321-9, Oct 76 (Eng) DL/77MAR331

THE IMMUNOGENICITY OF INSULIN PREPARATIONS. Chance RE, Root MA, Galloway JA *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 185-98, 1976 (Eng) [38] DL/77MAR410

THE INFLUENCE OF INSULIN AND INSULIN ANTIBODIES ON THE GLOMERULAR STRUCTURE. Wehner H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 241-50, 1976 (Eng) DL/77MAR414

ORGAN-SPECIFIC CELL-MEDIATED AUTOIMMUNITY IN DIABETES MELLITUS. Irvine WJ, Mac Cuish AC, Campbell CJ, Duncan LJ *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 65-76, 1976 (Eng) DL/77MAR421

INFLUENCE OF ACETATE ON GLUCOSE METABOLISM IN THE PERFUSED HIND-QUARTER OF THE RAT. Karlsson N, Fellenius E, Kiesling KH *Acta Physiol Scand* 98: 347-55, Nov 76 (Eng) DL/77MAR434

PROPERTIES OF TOAD SKIN NA-K-ATPASE WITH SPECIAL REFERENCE TO EFFECT OF TEMPERATURE. Park YS, Hong SK *Am J Physiol* 231: 1356-63, Nov 76 (Eng) DL/77MAR449

ORNITHINE DECARBOXYLASE IN RAT SMALL INTESTINE: STIMULATION WITH FOOD OR INSULIN. Maudsley DV, Leif J, Kobayashi Y *Am J Physiol* 231: 1557-61, Nov 76 (Eng) DL/77MAR452

SIMULATION STUDY OF CONTROL OF HEPATIC GLYCOGEN SYNTHESIS BY GLUCOSE AND INSULIN. El-Refaei M, Bergman RN *Am J Physiol* 231: 1608-19, Nov 76 (Eng) DL/77MAR453

BINDING OF INSULIN AND NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY TO ISOLATED PERFUSED RAT HEART MUSCLE. EVIDENCE FOR TWO SEPARATE BINDING SITES. Meuli C, Froesch ER *Arch Biochem Biophys* 177: 31-8, Nov 76 (Eng) DL/77MAR465

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

EARLY EFFECTS OF SERUM ON PHOSPHOLIPID METABOLISM IN UNTRANSFORMED AND ONCOGENIC VIRUS-TRANSFORMED CULTURED FIBROBLASTS. Ciechanover A, Hershko A *Biochem Biophys Res Commun* 73: 85-91, 8 Nov 76 (Eng) DL/77MAR475

STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chiasson JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

1.C.3.3 INSULIN, ADVERSE EFFECTS

TREATMENT OF INSULIN-INDUCED LIPOATROPHY. Hulst SG *Diabetes* 25: 1052-4, Nov 76 (Eng) DL/77MAR119

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

1.C.4 HYPERINSULINISM

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCAEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam,*

1.D GLUCAGON

North-Holland, 1976. W3 135 no.2 1975. (Eng)
DL/77MAR189

THE DEVELOPMENT OF OBESITY, HYPERINSULINEMIA, AND HYPERGLYCEMIA IN OB/OB MICE. Dubuc PU *Metabolism* 25: 1567-74, Dec 76 (Eng) DL/77MAR252

EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS. Berdanier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440

FAMILIAL CONGENITAL MONOCHROMATISM, CATARACTS, AND SENSORINEURAL DEAFNESS. Jan JE, Tze WJ, Johnston AC, Dunn HG *Am J Dis Child* 130: 1349-50, Dec 76 (Eng) DL/77MAR444

1.C.4.1 INSULIN COMA

INSULIN COMA THERAPY: DECREASE OF PLASMA TRYPTOPHAN IN MAN. Baumann P, M Gaillard J *J Neural Transm* 39: 309-13, 1976 (Eng) DL/77MAR198

1.C.5 INSULIN ANTIBODIES

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabete Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

[PURITY AND ANTIGENICITY OF THE NEW INSULIN PREPARATIONS] Fankhauser S *Schweiz Med Wochenschr* 106: 1218-25, 4 Sep 76 (Ger) DL/77MAR347

[RELATIONSHIP BETWEEN THE COURSE OF DIABETES MELLITUS IN CHILDREN AND INDICES OF COMPLEMENT AND INSULIN ANTIBODY TITERS] Dreval AV, Zhukovskii MA, Shcherbacheva LN, Mikhailova VS *Vopr Okhr Materin Det* 21: 12-7, Feb 76 (Rus) DL/77MAR370

INSULIN INDUCED INSULITIS. Kloppel G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 107-21, 1976 (Eng) DL/77MAR403

THE IMMUNOGENICITY OF INSULIN PREPARATIONS. Chance RE, Root MA, Gallows JA *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 185-98, 1976 (Eng) [38] DL/77MAR410

INSULIN-ANTI-INSULIN COMPLEXES. Folling I *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 199-209, 1976 (Eng) DL/77MAR411

HIGH AND LOW AFFINITY INSULIN ANTIBODIES. Kerp L, Kasemir H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 211-22, 1976 (Eng) DL/77MAR412

CLINICAL SIGNIFICANCE OF ANTI-INSULIN-ANTIBODIES. Andersen OO *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 231-40, 1976 (Eng) DL/77MAR413

THE INFLUENCE OF INSULIN AND INSULIN ANTIBODIES ON THE GLOMERULAR STRUCTURE. Wehner H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 241-50, 1976 (Eng) DL/77MAR414

HUMORAL AUTOIMMUNITY IN DIABETES MELLITUS. Bottazzo GF, Doniach D, Poupard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 55-64, 1976 (Eng) DL/77MAR420

EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS. Berdanier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440

1.C.6 INSULIN RESISTANCE

INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HERMORRHAGIC SHOCK. Chaudry IH, Sayeed MM, Baue AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

[DIABETES MELLITUS SECONDARY TO LIVER DISEASES. A REVIEW (AUTHORS TRANSL)] Guillon J, Charbonnel B *Diabete Metab* 1: 191-9, Sep 75 (Fre) [58] DL/77MAR101

THE INSULIN RECEPTOR: ITS ROLE IN INSULIN RESISTANCE OF OBESITY AND DIABETES. Olefsky JM *Diabetes* 25: 1154-62, Dec 76 (Eng) [83] DL/77MAR130

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBESE-HYPERGLYCEMIC (OB/OB) MICE. Cuendet GS, Loten EG, Jeanrenaud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBESE HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

CHARACTERIZATION OF ANTIBODIES TO THE INSULIN RECEPTOR: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. Flier JS, Kahn CR, Jarrett DB, Roth J *J Clin Invest* 58: 1442-9, Dec 76 (Eng) DL/77MAR180

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

[MAIN INDICATORS OF CARBOHYDRATE METABOLISM IN OBESE CHILDREN AND ADOLESCENTS] Dudenko NV, Zhamkochian LF, Belopashentseva SB *Vopr Okhr Materin Det* 21: 14-7, Aug 76 (Rus) DL/77MAR376

CLINICAL SIGNIFICANCE OF ANTI-INSULIN-ANTIBODIES. Andersen OO *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 231-40, 1976 (Eng) DL/77MAR413

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

1.C.7 INSULIN, THERAPY RELATED

1.C.7.1 INSULIN, DIAGNOSTIC USE

PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HORMONE-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-9, Sep 76 (Eng) DL/77MAR42

[STUDY OF THE EFFECT OF ULTRASOUND ON THE SYMPATHETIC-ADRENAL SYSTEM IN WORKERS] Gerasimova Elu *Gig Sanit* 23-9, Aug 76 (Rus) DL/77MAR139

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dorrner M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

ASSESSMENT OF COMPLETENESS OF VAGOTOMY. Kronborg O *Surg Clin North Am* 56: 1421-34, Dec 76 (Eng) [121] DL/77MAR352

[SOMATOTROPIC FUNCTION OF THE PITUITARY IN OBESITY] Epshtein EV *Vrach Delo* 105-8, Jul 76 (Rus) DL/77MAR382

EFFECT OF EXERCISE ON GLUCOSE UPTAKE IN DIABETIC ADOLESCENTS. Dorchy H, Ego F, Baran D, Loeb H *Acta Paediatr Belg* 29: 83-5, Apr-Jun 76 (Eng) DL/77MAR427

1.C.7.2 INSULIN ADMINISTRATION AND DOSAGE (SEE I.F.9.3.1)

1.C.7.3 INSULIN, THERAPEUTIC USE (SEE I.F.9.3.2)

1.C.8 INSULIN, HISTORY

1.D GLUCAGON

[APPEARANCE OF GLUCAGON-PRODUCING CELLS IN THE ENDODERM OF THE ALLANTOIS ASSOCIATED WITH INTESTINAL AND PANCREATIC MESENCHYME] Yasugi S *C R Acad Sci [D] (Paris)* 283: 383-5, 13 Sep 76 (Fre) DL/77MAR38

THE CHEMISTRY OF TRYPTOPHAN IN PEP-TIDES AND PROTEINS. Fontana A, Toniolo C *Fortschr Chem Org Naturst* 33: 309-449, 1976 (Eng) [467] DL/77MAR141

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

SOMATOSTATIN INHIBITION OF GLUCAGON-STIMULATED ADENOSINE 3-5-MONOPHOSPHATE ACCUMULATION IN ISOLATED HEPATOCYTES. Oliver JR, Long K, Wagle SR, Allen DO *Proc Soc Exp Biol Med* 153: 367-9, Nov 76 (Eng) DL/77MAR327

1.D.1 GLUCAGON, BIOCHEMISTRY RELATED

1.D.1.1 GLUCAGON, ANALYSIS

INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS. Helmstaedt V, Feurle GE, Forssmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE. Patel YC, Orci L, Bankier A, Cameron DP *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL)] Ruitton A, Frederich F *Diabete Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

1.D GLUCAGON

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

1.D.1.2 GLUCAGON, METABOLISM

QUANTITATIVE ASPECTS OF SECRETION AND HEPATIC REMOVAL OF GLUCAGON IN SHEEP. Brockman RP, Manns JG, Bergman EN *Can J Physiol Pharmacol* 54: 666-70, Oct 76 (Eng) DL/77MAR23

HIGH-SENSITIVITY CYTOFLUOROMETRIC QUANTIFICATION OF LECTIN AND HORMONE BINDING TO SURFACES OF LIVING CELLS. Bohn B *Exp Cell Res* 103: 39-46, Nov 76 (Eng) DL/77MAR69

MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M *Diabetes* 25: 1018-23, Nov 76 (Eng) DL/77MAR115

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

TISSUE CULTURE OF ISOLATED PANCREATIC ISLETS. Andersson A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 283-94, 1976 (Eng) [58] DL/77MAR417

PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

1.D.1.3 GLUCAGON, BLOOD

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orcl L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNOREACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabetes Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabetes Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL)] Ruitton A, Frederick F *Diabetes Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

[DIABETES MELLITUS SECONDARY TO LIVER DISEASES. A REVIEW (AUTHORS TRANSL)] Guillon J, Charbonnel B *Diabetes Metab* 1: 191-9, Sep 75 (Fre) [58] DL/77MAR101

THE BREAKFAST TOLERANCE TEST: A RETURN TO PHYSIOLOGY. Lefebvre PJ, Luyckx AS *Diabetes Metab* 2: 15-9, Mar 76 (Eng) DL/77MAR109

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

INFLUENCE OF GLUCOSE INGESTION ON FUEL-HORMONE RESPONSE DURING PROLONGED EXERCISE. Ahlborg G, Felig P *J Appl Physiol* 41: 683-8, Nov 76 (Eng) DL/77MAR167

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOGLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

PATHOGENESIS AND CHARACTERIZATION OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. Emmanouel DS, Jaspas JB, Kuku SF, Rubenstein AH, Katz AI, Huen AH *J Clin Invest* 58: 1266-72, Nov 76 (Eng) DL/77MAR177

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chissano JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

[DETERMINATION OF SERUM GLUCAGON] Morita S, Baba S *Jpn J Clin Med* 34 suppl: 2290-8, 1976 (Jpn) [68] DL/77MAR229

INFLUENCE OF SOMATOSTATIN ON CARBOHYDRATE DISPOSAL AND ABSORPTION IN DIABETES MELLITUS. Wahren J *Lancet* 2: 1213-6, 4 Dec 76 (Eng) DL/77MAR244

PHYSIOLOGIC SIGNIFICANCE OF GLUCOCORTICOIDS AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

CURRENT ASPECTS OF AETIOLOGY AND DIAGNOSIS IN DIABETES MELLITUS. Turtle JR *Med J Aust* 2: 458-60, 18 Sep 76 (Eng) DL/77MAR256

[METABOLIC ACTIVITY OF THE SMALL-FOETAL NEWBORN INFANT] Sann L *Pediatr* 31: 309-13, Apr 76 (Fre) [43] DL/77MAR308

RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION. Ceremuzynski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

A NOVEL CYCLIC UNDERCAPEPTIDE, WY-40,770, WITH PROLONGED GROWTH HORMONE RELEASE INHIBITING ACTIVITY. Sarantakis D, Teichman J, Lien EL, Fenichel RL *Biochem Biophys Res Commun* 73: 336-42, 22 Nov 76 (Eng) DL/77MAR477

1.D.2 GLUCAGON, PHYSIOLOGY RELATED

1.D.2.1 GLUCAGON, PHYSIOLOGY

THE ROLE OF INSULIN IN THE GLUCOSTATIC CONTROL OF FOOD INTAKE. Rezek M *Can J Physiol Pharmacol* 54: Oct 76 (Eng) [97] DL/77MAR22

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chissano JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

1.D.2.2 GLUCAGON, SECRETION

INTERACTION OF CALCIUM AND GLUCOSE ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabetes Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

REGULATION BY GLUCOSE AND CYCLIC NUCLEOTIDES OF THE GLUCAGON AND INSULIN RELEASE INDUCED BY AMINO ACIDS. Jarrousse C, Rosselin G *Diabetes Metab* 1: 135-42, Sep 75 (Eng) DL/77MAR95

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL)] Luyckx A *Diabetes Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL)] Girard J, Ferre P, Gilbert M *Diabetes Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatnaga SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

[DETERMINATION OF SERUM GLUCAGON] Morita S, Baba S *Jpn J Clin Med* 34 suppl: 2290-8, 1976 (Jpn) [68] DL/77MAR229

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

1.D.3 GLUCAGON, PHARMACOLOGY RELATED

1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

1.D.3.2 GLUCAGON, PHARMACODYNAMICS

EFFECT OF HIGH LEVEL SECTION OF THE SPINAL CORD ON THE CYCLIC AMP SYSTEM IN RAT LIVER. Vapztarova K, Hanoune J *Biochim Biophys Acta* 444: 712-8, 22 Oct 76 (Eng) DL/77MAR7

QUANTITATIVE ASPECTS OF SECRETION AND HEPATIC REMOVAL OF GLUCAGON IN SHEEP. Brockman RP, Manns JG, Bergman EN *Can J Physiol Pharmacol* 54: 666-70, Oct 76 (Eng) DL/77MAR23

THE ACTIVATION OF ADENYLATE CYCLASE BY CHOLERA TOXIN: POSSIBLE INTERACTION WITH THE NUCLEOTIDE REGULATORY SITE. Flores J, Sharp GW *Ciba Found Symp* 42: 89-108, 1976 (Eng) [35] DL/77MAR47

[THE EFFECTS OF CALCITONIN, GLUCAGON AND THE DIBUTYRYL DERIVATIVE OF CYCLIC AMP ON PLASMA-RENIN ACTIVITY (AUTHORS TRANSL)] Werning C, Stiel D *Dtsch Med Wochenschr* 101: 1690-2, 12 Nov 76 (Ger) DL/77MAR49

SUPPRESSION OF RENIN SECRETION IN THE ISOLATED RAT KIDNEY BY CYCLOHEXIMIDE. Vandongen R *Eur J Pharmacol* 40: 179-81, Nov 76 (Eng) DL/77MAR68

CYCLIC AMP CONTROL BY PROSTAGLANDIN E1 IN NON-PARENCHYMAL LIVER CELLS. Ferretti E, Biondi C, Tomasi V *FEBS Lett* 69: 70-4, 15 Oct 76 (Eng) DL/77MAR74

HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN RELATION TO GLUCONEOGENESIS AND LIPOGENESIS. Titheradge MA, Coore HG *FEBS Lett* 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL)] Girard J, Ferre P, Gilbert M *Diabete Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I--THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

CONNECTING (C)-PEPTIDE--A SPIN-OFF OF INSULIN SECRETION [EDITORIAL]. Vaisrub S *JAMA* 236: 2888, 20 Dec 76 (Eng) DL/77MAR220

[DETERMINATION OF SERUM AND URINARY CYCLIC AMP AND GMP] Kimura H *Jpn J Clin Med* 34 suppl: 2369-70, 1976 (Jpn) [80] DL/77MAR230

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

PORTAL VENOUS GOODIES AND FULMINANT VIRAL HEPATITIS [EDITORIAL]. Sherlock S *N Engl J Med* 295: 1535-6, 30 Dec 76 (Eng) DL/77MAR269

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

[EFFECT OF GLUCAGON ADMINISTRATION ON BLOOD GLUCOSE LEVEL IN TOTALLY DEPANCREATIZED DOGS (AUTHORS TRANSL)] Nishimura I *Arch Jpn Chir* 45: 390-7, 1 Sep 76 (Jpn) DL/77MAR467

EFFECT OF GLUCAGON ON HEPATIC CIRCULATION IN THE PIG. Lindberg B, Darle N *Arch Surg* 111: 1379-83, Dec 76 (Eng) DL/77MAR469

1.D.3.3 GLUCAGON, TOXICITY

1.D.4 GLUCAGON, THERAPY RELATED

1.D.4.1 GLUCAGON, DIAGNOSTIC USE

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

USE OF GLUCAGON AS THE HYPOTONIC AGENT IN BARIUM ENEMA EXAMINATION. Jerele JJ *J Am Osteopath Assoc* 76: 264-71, Dec 76 (Eng) DL/77MAR186

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baraton S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JL, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

1.D.4.2 GLUCAGON, THERAPEUTIC USE

[THERAPEUTIC ACTION OF GLUCAGON ON PATHOLOGICAL STATES OF THE MYOCARDIUM, ESPECIALLY ON SPECIFIC CONDUCTION TISSUE DISORDERS] Sanna S, Leo P, Netter R *Boll Soc Ital Cardiol* 20: 1233-49, 1975 (Ita) DL/77MAR2

[THERAPY OF ACUTE PANCREATITIS] Muller-Wieland K *Dtsch Med Wochenschr* 101: 1729-31, 19 Nov 76 (Ger) DL/77MAR51

SKIN RASH IN PATIENT RECEIVING GLUCAGON [LETTER]. Barber SG, Hamer JD *Lancet* 2: 1138, 20 Nov 76 (Eng) DL/77MAR243

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

PORTAL VENOUS GOODIES AND FULMINANT VIRAL HEPATITIS [EDITORIAL]. Sherlock S *N Engl J Med* 295: 1535-6, 30 Dec 76 (Eng) DL/77MAR269

[USE OF GLUCAGON IN THE TREATMENT OF SEVERE CONTRACTILE INSUFFICIENCY OF THE MYOCARDIUM] Bertolazzi R, Ricciardi S, Marengo G *Minerva Med* 67: 3519-24, 10 Nov 76 (Ita) DL/77MAR286

GLUCAGON-AIDED REDUCTION OF INTUSSUSCEPTION. Fisher JK, Germann DR *Radiology* 122: 197-8, Jan 77 (Eng) DL/77MAR332

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

1.E.1 BLOOD SUGAR

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB,

Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

- Shook DF, O'Dorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133
- CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS.** Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211
- RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION.** Ceremuzynski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315
- [CORRELATIONS BETWEEN CLINICAL FINDINGS AND THERAPEUTIC MEASURES AND THE COURSE OF DIABETIC RETINOPATHY]** Teuscher A *Schweiz Med Wochenschr* 106: 1041-5, 31 Jul 76 (Ger) DL/77MAR342
- [SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATICTOMIZED PATIENTS (AUTHORS TRANSL)]** Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386
- [MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY]** Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388
- PHAGOCYTIC AND MICROBICIDAL FUNCTION IN DIABETES MELLITUS.** Bagdade JD *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 27-34, 1976 (Eng) DL/77MAR416
- [PLASMATIC LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)]** Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *An Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458
- INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTI-BODIES TO INSULIN RECEPTORS.** Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459
- LETTER: EFFECT OF SKIN-CLEANING AGENTS ON DEXTROSTIX READINGS.** Ball SG, Hughes AS *Br Med J* 1: 1279, 22 May 76 (Eng) *DL/77MAR489
- [CHANGES IN BLOOD CONSTITUENTS IN RATS AT 1,800 M ALTITUDE AND EFFECT ON PERIODONTIUM]** Bessede M, Worbe JF *C R Soc Biol (Paris)* 169: 1224-6, 1975 (Fre) *DL/77MAR491
- A SEMIAUTOMATED MICROMETHOD FOR DEXTRAN IN THE PRESENCE OF GLUCOSE.** Weet JF, Cobb CA, Lebric SJ *J Lab Clin Med* 87: 898-902, May 76 (Eng) *DL/77MAR512
- FIBER CONNECTIONS IN THE HYPOTHALAMUS AND SOME AUTONOMIC FUNCTIONS.** Ban T *Pharmacol Biochem Behav* 3: 3-13, 1975 (Eng) *DL/77MAR525
- ABILITY OF EXOGENOUS ALANINE TO LOWER BLOOD BETA-HYDROXYBUTYRATE DURING DEVELOPMENT IN RATS.** Ozand PT, Tildon JT, Stevenson JH, Reed WD, Cornblath M *Am J Physiol* 230: 1385-8, May 76 (Eng) *DL/77MAR551
- I.E.1.1 BLOOD SUGAR, ANALYSIS**
- [CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS]** Ceruso D, Frisina N, Nicita-
- Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3
- [INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES]** Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46
- [GLISOPEXIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL)]** Happ J, Beyer J, Ulreich F, Schoffling K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48
- [TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL)]** Luft D, Schubert WR, Reichenmiller HE *Dtsch Med Wochenschr* 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52
- DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE.** Patel YC, Orci L, Bankier A, Cameron DP *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62
- INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE.** Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabete Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97
- STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES.** Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabete Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103
- THE BREAKFAST TOLERANCE TEST: A RETURN TO PHYSIOLOGY.** Lefebvre PJ, Luyckx AS *Diabete Metab* 2: 15-9, Mar 76 (Eng) DL/77MAR109
- PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS.** Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabete Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111
- HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I--THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN.** Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153
- CONDITIONED HYPOGLYCEMIA.** Woods SC *J Comp Physiol Psychol* 90: 1164-8, Dec 76 (Eng) DL/77MAR182
- METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM.** Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199
- [ARTIFICIAL PANCREATIC BETA CELLS--THE PRESENT STATUS AND PROSPECT]** Shichiri M, Kawamori T, Goriya Y, Shigeta Y *Jpn J Clin Med* 34: 2886-93, 10 Sep 76 (Jpn) DL/77MAR224
- [DETERMINATION OF SERUM GLUCOSE AND INTERPRETATION OF GLUCOSE TOLERANCE TEST]** Sano T, Abe M *Jpn J Clin Med* 34 suppl: 1874-88, 1976 (Jpn) DL/77MAR225
- INFLUENCE OF SOMATOSTATIN ON CARBOHYDRATE DISPOSAL AND ABSORPTION IN DIABETES MELLITUS.** Wahren J *Lancet* 2: 1213-6, 4 Dec 76 (Eng) DL/77MAR244
- DIABETIC RETINOPATHY AND BLOOD-SUGAR [LETTER].** Katsilambros N *Lancet* 2: 1253, 4 Dec 76 (Eng) DL/77MAR245
- ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA.** Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258
- GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS.** Yoon JW, Lesniak MA, Fussanger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272
- [ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS]** Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276
- [EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY]** Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277
- [VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD]** Baratonio S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278
- [COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGTT IN CHILDREN]** Baratonio S, Cerutti F, Miglio C, Altare F *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279
- [SOME METABOLIC EFFECTS OF SALBUTAMOL]** Fassio V, Massara F, Camanni F, Martina V *Minerva Med* 67: 3267, 20 Oct 76 (Ita) DL/77MAR282
- [PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES]** Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccili MP *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283
- [BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS]** Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287
- [METABOLIC ACTIVITY OF THE SMALL-FOUR-DATE NEWBORN INFANT]** Sann L *Pediatric* 31: 309-13, Apr 76 (Fre) [43] DL/77MAR308
- [RESULTS OF LONG TERM USE OF A LOW DOSE ESTROPROGESTATIN IN DIABETICS AND HIGH RISK WOMEN]** Perlemuter L, Hazard J, Jouin-Caurier D, Clipet M *Nouv Presse Med* 5: 2853-6, 11 Dec 76 (Fre) DL/77MAR312
- EARLY MANIFESTATIONS AND INVESTIGATION OF CEREBRAL ARTERIOSCLEROSIS.** Gilroy J *Practitioner* 217: 66-73, Jul 76 (Eng) [24] DL/77MAR319
- FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENervation TO AFFECT FOOD INTAKE IN DOGS.** Bellinger LL, Tietley GJ, Bernardis LL *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328
- GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GAS-**

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

TRECTOMY. Emas S, Svensson SO, Dormer M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Collate H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

[ADENOSINE CYCLIC 3,5 MONOPHOSPHATE IN CHILDREN WITH DIABETES MELLITUS] Kniazev IuA, Golovanova VB, Vakhruševa LL, Arsenova EN, Ermolenko RI *Vopr Okhr Materin Det* 21: 11-3, Aug 76 (Rus) DL/77MAR375

[MAIN INDICATORS OF CARBOHYDRATE METABOLISM IN OBESE CHILDREN AND ADOLESCENTS] Dudenko NV, Zhamkochian LF, Belopashentsva SB *Vopr Okhr Materin Det* 21: 14-7, Aug 76 (Rus) DL/77MAR376

[THE PROBLEM OF ABILITY TO WORK AND THE SUPERVISION OF WORKING PATIENTS WITH DIABETES MELLITUS] Schunk W Z *Aerzt Fortbild (Jena)* 70: 650-1, 15 Jun 76 (Ger) DL/77MAR389

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

URBAN TRAFFIC NOISE, CARDIOCIRCULATORY ACTIVITY AND CORONARY RISK FACTORS. di Cantogno L, Dallerba R, Teagno PS, Cocola L *Acta Otolaryngol [Suppl] (Stockh)* 0: 55-63, 1976 (Eng) DL/77MAR426

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JJ, Rosenbloom AL, Grgic A, Weber FT *Am J Dis Child* 130: 1324-7, Dec 76 (Eng) DL/77MAR443

SCREENING FOR GESTATIONAL DIABETES BY PLASMA GLUCOSE LEVELS [LETTER]. Amankwah KS *Am J Obstet Gynecol* 126: 1052, 15 Dec 76 (Eng) DL/77MAR446

METABOLISM OF KETONE BODIES BY OVINE BRAIN IN VIVO. Kammula RG *Am J Physiol* 231: 1490-4, Nov 76 (Eng) DL/77MAR451

GLUCOSE AND INSULIN RESPONSES IN SHEEP SUBJECTED TO A SECOND EPISODE OF HEMORRHAGIC SHOCK. Fritz SD, Fitts CT, Colwell JA *Am Surg* 42: 899-907, Dec 76 (Eng) DL/77MAR457

CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lammintuusta R, Syvalahti E, Pekkarinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

ENDOGENOUS CALORIC SOURCES AND NITROGEN BALANCE: REGULATION IN POSTOPERATIVE PATIENTS. Gazzaniga AB, Day AT, Barlett RH, Wilson AF *Arch Surg* 111: 1357-61, Dec 76 (Eng) DL/77MAR468

[DISADVANTAGES OF ACID PRECIPITATION OF PROTEINS DURING THE ASSAY OF BLOOD GLUCOSE BY THE ENZYMIC GLUCOSE OXIDASE-PEROXIDASE SYSTEM] Van Hung ML C *R Acad Sci [D] (Paris)* 282: 751-4, 23 Feb 76 (Fre) *DL/77MAR492

A RAPID METHOD FOR THE MEASUREMENT OF PLASMA GLUCOSE CONCENTRATION. Telfer Brunton WA, Percy-Robb IW *Clin Chim Acta* 69: 131-5, 17 May 76 (Eng) *DL/77MAR494

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Bobilewicz D, Wilk M, Obuchowicz-Fidulus B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

CERTAIN BIOCHEMICAL PARAMETERS OF PSYCHOGENIAS. PP. 541-6. Ivanov NA *Ino Levi L, ed. Emotions0 their parameters and measurement.* New York, Raven Press, 1975. WL 102 E54 1975. (Eng) *DL/77MAR510

EFFECT OF FOOD INGESTION ON CERTAIN CLINICALLY IMPORTANT BIOCHEMICAL INVESTIGATIONS. Valame S, Tanksale KG, Sheth UK *J Postgrad Med* 21: 173-6, Oct 75 (Eng) *DL/77MAR514

THE EFFECTS OF LONG-TERM ALTERNATE-DAY STEROIDS ON PARAMETERS OF ADRENAL FUNCTION IN RENAL TRANSPLANT PATIENTS. Keogh B, Chu TM, Murphy GP *J Urol* 115: 487-9, May 76 (Eng) *DL/77MAR516

INVESTIGATIONS ON THE FUNCTION OF THE RAT FORESTOMACH. Kunstir I, Peters K, Gartner K *Lab Anim Sci* 26: 166-70, Apr 76 (Eng) *DL/77MAR519

LETTER: HYPOTHALAMIC/PITUITARY/ADRENAL FUNCTION IN PATIENTS ON CHEMOTHERAPY. Anonymous *Lancet* 1: 1238-9, 5 Jun 76 (Eng) *DL/77MAR520

LETTER: ACCURACY OF BLOOD GLUCOSE MEASUREMENTS USING A REFLECTANCE METER. Anonymous *Med J Aust* 1: 414-5, 20 Mar 76 (Eng) *DL/77MAR521

[METHOD OF DETERMINING SUGAR IN THE BLOOD] Roberman NB *Probl Endokrinol (Mosk)* 22: 53-5, 1976 (Rus) *DL/77MAR524

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Sinzinger H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R *Wien Med Wochenschr* 125: 611-4, 17 Oct 75 (Ger) *DL/77MAR536

EFFECT OF PHLORIZIN ON GLUCOSE TRANSPORT IN THE INNER EAR. Takeda T, Makimoto K, Murata K, Suehiro S, Iwai H *Acta Otolaryngol (Stockh)* 81: 424-8, May-Jun 76 (Eng) *DL/77MAR541

EFFECT OF PROPRANOLOL ON THYROXINE-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS. Uscilko HK, Brzezinska Z, Greenleaf JE *Acta Physiol Pol* 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543

THE EFFECT OF RESTRICTION OF PHYSICAL ACTIVITY ON ADAPTATION TO PROLONGED EXERCISE IN DOGS. Pohoska E *Acta Physiol Pol* 27: 199-202, Mar-Apr 76 (Eng) *DL/77MAR544

THE NATURE OF THE TRAINING RESPONSE; PERIPHERAL AND CENTRAL ADAPTATIONS OF ONE-LEGGED EXERCISE. Saltin B,

Nazar K, Costill DL, Stein E, Jansson E, Essen B, Gollnick D *Acta Physiol Scand* 96: 289-305, Mar 76 (Eng) *DL/77MAR545

1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS

1.E.1.3 BLOOD SUGAR, METABOLISM

ANTI-HYPERTENSIVE ACTION, TIME OF ONSET AND EFFECTS ON CARBOHYDRATE METABOLISM OF LABETALOL. Andersson O, Berglund G, Hansson L *Br J Clin Pharmacol* 3: 757-61, Aug 76 (Eng) DL/77MAR4

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Oldewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tsurui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

CORRELATION OF BLOOD AND BRAIN AMINO ACIDS IN HYPOGLYCEMIC AND NORMOGLYCEMIC RATS. Wapnir RA *Experientia* 32: 1409-11, 15 Nov 76 (Eng) DL/77MAR70

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltz C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

[PROPORTION OF LOW INSULIN RESPONSES TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL.)] Leclercq-Meyer V, Malaissé WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN

Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

- RESPONSE IN THE NEWBORN RAT.** Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116
- METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS.** Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118
- COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE.** Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126
- PLASMA INSULIN LEVELS IN TELEOSTS DETERMINED BY A CHARCOAL-SEPARATION RADIOIMMUNOASSAY TECHNIQUE.** Thorpe A, Ince BW *Gen Comp Endocrinol* 30: 332-9, Nov 76 (Eng) DL/77MAR134
- [α (1-BETA-ALANINE) INSULIN] Geiger R, Geisen K, Regitz G, Summ HD *Hoppe Seyler's Z Physiol Chem* 357: 1267-70, Sep 76 (Ger) DL/77MAR149**
- INFLUENCE OF GLUCOSE INGESTION ON FUEL-HORMONE RESPONSE DURING PROLONGED EXERCISE.** Ahlborg G, Felig P *J Appl Physiol* 41: 683-8, Nov 76 (Eng) DL/77MAR167
- IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN.** August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169
- EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST.** Permutt MA, Delmez J, Stenson W *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171
- EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS.** Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Williams B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172
- INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING.** Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195
- ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLHYDANTOIN.** Mackerer CR, Saunders RN, Hacttinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217
- QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE.** Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253
- STRESS-INDUCED INHIBITION OF TRIGLYCERIDE SECRETION IN VIVO SAND RATS (PSAMMOMYS OBESUS).** Robertson RP, Smith PH *Metabolism* 25: 1583-90, Dec 76 (Eng) DL/77MAR254
- TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN.** Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323
- STOMACH MOTILITY IN INSULIN-TREATED SHEEP.** Ali TM, Nicholson T, Singleton AG *J Exp Physiol* 61: 321-9, Oct 76 (Eng) DL/77MAR331
- [CARBOHYDRATE METABOLISM IN CHILDREN BORN TO WOMEN WITH DIABETES MELLITUS] Vitorova VG, Savchenko TN, Loseva IV, Vishnevskii FE *Vopr Okhr Materin Det* 21: 9-12, Feb 76 (Rus) DL/77MAR372**
- HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION.** Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399
- THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION.** Lechin F, Coll-Garcia E, Van Der Dijk B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng) DL/77MAR433
- ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE.** Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441
- [EFFECT OF GLUCAGON ADMINISTRATION ON BLOOD GLUCOSE LEVEL IN TOTALLY DEPANCREATIZED DOGS (AUTHORS TRANSL)] Nishimura I *Arch Jpn Chir* 45: 390-7, 1 Sep 76 (Jpn) DL/77MAR467**
- SURFACE SULPHHYDRYL GROUPS AND PHAGOCYTOSIS-ASSOCIATED OXIDATIVE METABOLIC CHANGES IN HUMAN POLYMORPHONUCLEAR LEUCOCYTES.** Tsan MF, Newman B, McIntyre PA *Br J Haematol* 33: 189-204, Jun 76 (Eng) *DL/77MAR479
- SURFACE SULPHHYDRYL GROUPS AND HEXOSE MONOPHOSPHATE PATHWAY ACTIVITY IN RESTING HUMAN POLYMORPHONUCLEAR LEUCOCYTES.** Tsan MF, Newman B, Chunid MJ, Wolff SM, McIntyre PA *Br J Haematol* 33: 205-11, Jun 76 (Eng) *DL/77MAR480
- BLOOD-BRAIN BARRIER STUDIES IN THE RAT: AN INDICATOR DILUTION TECHNIQUE WITH TRACER SODIUM AS AN INTERNAL STANDARD FOR ESTIMATION OF EXTRACEREBRAL CONTAMINATION.** Hertz MM, Bolwig TG *Brain Res* 107: 333-43, 7 May 76 (Eng) *DL/77MAR490
- DOPAMINE-BETA-HYDROXYLASE ACTIVITY IN SERUM FOLLOWING ACUTE MYOCARDIAL INFARCTION: AN EVALUATION OF THIS PARAMETER FOR ROUTINE USE AS AN INDEX OF SYMPATHETIC ACTIVITY.** Gutteberg T, Borud O, Stromme JH *Clin Chim Acta* 69: 61-6, 17 May 76 (Eng) *DL/77MAR495
- CYCLIC NUCLEOTIDES AND CRUSTACEAN BLOOD GLUCOSE LEVELS.** Spindler KD, Wilig A, Keller R *Comp Biochem Physiol [A]* 54: 301-4, 1976 (Eng) *DL/77MAR496
- TOLERANCE AND ACCEPTABLE DAILY INTAKE OF ETHYLENE DICHLORIDE IN THE CHICKEN DIET.** Alumot E, Meidler M, Holstein P *Food Cosmet Toxicol* 14: 111-4, Apr 76 (Eng) *DL/77MAR503
- THE EFFECT OF MATERNAL HYPOTHYROIDISM ON MATERNAL AND FETAL TISSUE GLUCOSE-1-14C INCORPORATION IN RATS.** Porterfield SP, Hendrich CE *Horm Res* 6: 236-46, 1975 (Eng) *DL/77MAR504
- CHRONIC TOXIC EFFECTS OF THE WATER OF THE RIVER RHINE UPON RAINBOW TROUTS.** PP. 81-91. Poels CL, Strik JJ *In* O Koeman JH, Strik JJ, ed. *Sublethal effects of toxic chemicals on aquatic animals*. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [13] *DL/77MAR508
- TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS.** PP. 31-41. Strik JJ, de Jong HH, van Rijn van Alkemade JW, Wuite TP *In* O Koeman JH, Strik JJ, ed. *Sublethal effects of toxic chemicals on aquatic animals*. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [26] *DL/77MAR509
- THE EFFECTS OF DL-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE.** PP. 165-71. Walker CA, Charlton CG *In* O Singh JM, Lal H, ed. *Drug addiction. Vol 40 New aspects of analytical and clinical toxicology*. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) *DL/77MAR511
- [EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518**
- PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION.** Wexler BC, Judd JT, Lutmer RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526
- MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI ENDOTOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS.** Marchetti G, Merlo L, Nosedà V, Brusoni B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527
- INFLUENCE OF LACTATE INFUSION ON GLUCOSE AND FFA METABOLISM IN MAN.** Ahlborg G, Hagenfeldt L, Wahren J *Scand J Clin Lab Invest* 36: 193-201, Mar 76 (Eng) *DL/77MAR530
- CEREBRAL UPTAKE OF GLUCOSE AND OXYGEN IN THE CAT BRAIN AFTER PROLONGED ISCHEMIA.** Hossmann KA, Sakaki S, Kimoto K *Stroke* 7: 301-5, May-Jun 76 (Eng) *DL/77MAR531
- [PHYSIOLOGICAL AND BIOCHEMICAL REACTIONS TO A STANDARD BATTERY OF EMOTION-PRODUCING FACTORS] Simonov EE, Dlusskaia IG *Voen Med Zh* 66-9, Feb 76 (Rus) *DL/77MAR534**
- PROCEEDINGS: PHARMACOLOGY OF BITIS ARIETANS VENOM.** Gumaa KA, Osman OH *West Afr J Pharmacol Drug Res* 2: 92p-93p, Dec 74 (Eng) *DL/77MAR535
- [HYPERTRIGLYCERIDEMIA IN RATS FOLLOWING GLUCOSE INFUSION—AN ANIMAL EXPERIMENT MODEL FOR THE STUDY OF TYPE IV HYPERLIPIDEMIA PATHOGENESIS] Heuck CC *Verh Dtsch Ges Inn Med* 81: 1446-9, 1975 (Ger) *DL/77MAR538**
- [GLUCOSE METABOLISM DURING STEROID AND BIGUANIDE THERAPY USING TRITIATED GLUCOSE] Bottermann P, Schweigart U, Emmeler R *Verh Dtsch Ges Inn Med* 81: 1481-4, 1975 (Ger) *DL/77MAR539**
- [INFLUENCE OF CHROMIUM AS A TRACE ELEMENT ON THE HORMONAL REGULA-**

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

TION IN THE RAT. 2. PHYSIOLOGICAL FUNCTION OF CHROMIUM IN CARBOHYDRATE METABOLISM] Djhanischiri H, Brune H *Z Tierphysiol* 36: 201-13, Aug 75 (Ger) *DL/77MAR540

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

[BEHAVIOR OF CALCIUM, INORGANIC PHOSPHORUS, MAGNESIUM AND GLUCOSE CONCENTRATIONS IN THE PLASMA OF EWES IN THE PERINATAL PERIOD] Brenner K, Seidel H *Arch Exp Veterinaarmed* 29: 939-45, Dec 75 (Ger) *DL/77MAR553

EXPERIMENTAL CORONARY OCCLUSION IN CALVES: THE EFFECT OF HYPERGLYCAEMIA ON VENTRICULAR FIBRILLATION THRESHOLD. Egerton WS, Balderson G *Aust NZ J Surg* 46: 92-6, Feb 76 (Eng) *DL/77MAR554

LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochem Med* 14: 355-67, Dec 75 (Eng) *DL/77MAR557

EFFECT OF NITRO BLUE TETRAZOLIUM DYE ON THE HEXOSE MONOPHOSPHATE SHUNT ACTIVITY OF HUMAN POLYMORPHONUCLEAR LEUKOCYTES. DeChateau LR, Shirley PS *Biochem Med* 14: 391-8, Dec 75 (Eng) *DL/77MAR558

1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS

1.E.2 GLUCOSE TOLERANCE TEST

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

ANTI-HYPERTENSIVE ACTION, TIME OF ONSET AND EFFECTS ON CARBOHYDRATE METABOLISM OF LABETALOL. Andersson O, Berglund G, Hansson L *Br J Clin Pharmacol* 3: 757-61, Aug 76 (Eng) DL/77MAR4

THE BREAKFAST TOLERANCE TEST: A RETURN TO PHYSIOLOGY. Lefebvre PJ, Luyckx AS *Diabete Metab* 2: 15-9, Mar 76 (Eng) DL/77MAR109

ABNORMAL CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA ON GUAM. Koerner DR *Diabetes* 25: 1055-65, Nov 76 (Eng) DL/77MAR120

ABNORMAL GLUCOSE TOLERANCE AND ARGININE TOLERANCE TESTS IN HUNTINGTONS DISEASE. Podolsky S, Leopold NA *Gerontology* 23: 55-63, 1977 (Eng) DL/77MAR136

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOGLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

[DETERMINATION OF SERUM GLUCOSE AND INTERPRETATION OF GLUCOSE TOLERANCE TEST] Sano T, Abe M *Jpn J Clin Med* 34 suppl: 1874-88, 1976 (Jpn) DL/77MAR225

H1A HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

INFLUENCE OF SOMATOSTATIN ON CARBOHYDRATE DISPOSAL AND ABSORPTION IN DIABETES MELLITUS. Wahren J *Lancet* 2: 1213-6, 4 Dec 76 (Eng) DL/77MAR244

QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE. Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253

CURRENT ASPECTS OF AETIOLOGY AND DIAGNOSIS IN DIABETES MELLITUS. Turtle JR *Med J Aust* 2: 458-60, 18 Sep 76 (Eng) DL/77MAR256

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL)] Schimmler W, Schuderer A, Kurz M *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGTT IN CHILDREN] Baratonno S, Cerutti F, Miglio C, Altare F *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

[PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES] Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccilli MP *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283

[CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT] Enzi G, Muggeo M, Tiengo A *Minerva Med* 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JI, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

[MAIN INDICATORS OF CARBOHYDRATE METABOLISM IN OBESE CHILDREN AND ADOLESCENTS] Dudenko NV, Zhamkochian LF, Belopashentsheva SB *Vopr Okhr Materin Det* 21: 14-7, Aug 76 (Rus) DL/77MAR376

[GYNECOLOGIC DISORDERS IN THE PREVENTION OF JUVENILE DIABETES] Grandguillaume P, Rey I *Soc Praeventivmed* 21: 155-6, Jul-Aug 76 (Fre) DL/77MAR398

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

EFFECT OF EXERCISE ON GLUCOSE UPTAKE IN DIABETIC ADOLESCENTS. Dorchy H, Ego F, Baran D, Loebe H *Acta Paediatr Belg* 29: 83-5, Apr-Jun 76 (Eng) DL/77MAR427

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

[PLASMA LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *An Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

1.E.3 HYPERGLYCEMIA

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

GUAR GUM IN DIABETES [LETTER]. Jenkins DJ, Wolever TM, Haworth R, Leeds AR, Hockaday TD *Lancet* 2: 1086-7, 13 Nov 76 (Eng) DL/77MAR238

1.E.3.1 HYPERGLYCEMIA, BLOOD

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED

ALLEVIATION OF NARCOTIC WITHDRAWAL SYNDROME BY CONDITIONAL STIMULI. Lai H, Miksic S, Drawbaugh R, Numan R, Smith N *Pavlov J Biol Sci* 11: 251-62, Oct-Dec 76 (Eng) DL/77MAR303

[SIDE EFFECTS OF INDOMETHACIN] Ayrolles C, Fournie A *Therapie* 31: 313-24, May-Jun 76 (Fre) DL/77MAR358

HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROIDINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS

THE DEVELOPMENT OF OBESITY, HYPERIN-
SULINEMIA, AND HYPERGLYCEMIA IN
OB/OB MICE. Dubuc PU *Metabolism* 25: 1567-
74, Dec 76 (Eng) DL/77MAR252

1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS

1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY

INFLUENCE OF SOMATOSTATIN ON CAR-
BOHYDRATE DISPOSAL AND ABSORPTION
IN DIABETES MELLITUS. Wahren J *Lancet* 2:
1213-6, 4 Dec 76 (Eng) DL/77MAR244

ROUTINE USE OF LOW-DOSE INTRAVENOUS
INSULIN INFUSION IN SEVERE HYPER-
GLYCAEMIA. Campbell LV, Lazarus L, Casey
JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76
(Eng) DL/77MAR258

THE BIGUANIDES: ACTION AND CLINICAL
INDICATIONS. Jerums G *Aust Fam Physician* 5:
1002, 1005, Aug 76 (Eng) DL/77MAR471

1.E.3.6 HYPERGLYCEMIA, ETIOLOGY

INFLUENCE OF SOMATOSTATIN ON CAR-
BOHYDRATE DISPOSAL AND ABSORPTION
IN DIABETES MELLITUS. Wahren J *Lancet* 2:
1213-6, 4 Dec 76 (Eng) DL/77MAR244

1.E.3.7 HYPERGLYCEMIA, METABOLISM

[THE ROLE OF GLUCAGON IN HYPER-
GLYCEMIA. A REVIEW (AUTHORS
TRANSL)] Luyckx A *Diabete Metab* 1: 201-8,
Sep 75 (Fre) [64] DL/77MAR102

INSULIN, GLUCAGON, AND SOMATOSTATIN
IN NORMAL PHYSIOLOGY AND DIABETES
MELLITUS. Felig P, Wahren J, Sherwin R, Hen-
dler R *Diabetes* 25: 1091-9, Dec 76 (Eng)
DL/77MAR123

DECREASED BASAL, NONINSULIN-STIMU-
LATED GLUCOSE UPTAKE AND METABOL-
ISM BY SKELETAL SOLEUS MUSCLE ISOL-
ATED FROM OBESE-HYPERGLYCEMIC
(OB/OB) MICE. Cuendet GS, Loten EG, Jeanre-
naud B, Renold AE *J Clin Invest* 58: 1078-88,
Nov 76 (Eng) DL/77MAR173

THE DEVELOPMENT OF OBESITY, HYPERIN-
SULINEMIA, AND HYPERGLYCEMIA IN
OB/OB MICE. Dubuc PU *Metabolism* 25: 1567-
74, Dec 76 (Eng) DL/77MAR252

CURRENT ASPECTS OF AETIOLOGY AND
DIAGNOSIS IN DIABETES MELLITUS. Turtle
JR *Med J Aust* 2: 458-60, 18 Sep 76 (Eng)
DL/77MAR256

ADRENAL FUNCTION IN THE DIABETIC MU-
TANT MOUSE (GENE SYMBOL DBM). Naeser
P *Acta Physiol Scand* 98: 395-9, Dec 76 (Eng)
DL/77MAR435

1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY

[THE ROLE OF GLUCAGON IN HYPER-
GLYCEMIA. A REVIEW (AUTHORS
TRANSL)] Luyckx A *Diabete Metab* 1: 201-8,
Sep 75 (Fre) [64] DL/77MAR102

MECHANISM OF INHIBITION OF GASTRIC
ACID SECRETION BY HYPERTONIC SOLU-
TIONS AND VASOPRESSIN. Limlomwongse L,
Nophakoon J, Thithapandha A *Pfuegers Arch*
366: 159-65, 5 Nov 76 (Eng) DL/77MAR309

1.E.3.9 HYPERGLYCEMIA, URINE

1.E.4 GLYCOSURIA

SPECIAL NEEDS OF THE GERIATRIC
DIABETIC PATIENT. Small D *J Pract Nurs* 26:
25-7, 36, Nov 76 (Eng) DL/77MAR213

DIABETES, EMOTIONAL ASPECTS, AND THE
EDUCATION OF THE PATIENT. Welborn TA
Med J Aust 2: 572-3, 576, 9 Oct 76 (Eng)
DL/77MAR260

LABORATORY EVALUATION OF RENAL
FUNCTION. Greenhill A, Gruskin AB *Pediatr
Clin North Am* 23: 661-79, Nov 76 (Eng)
DL/77MAR304

CLINICAL EXAMINATION OF THE URINE.
Duncan JR, Prasse KW *Vet Clin North Am* 6:
647-61, Nov 76 (Eng) DL/77MAR367

THE ROLE OF URINE SUGAR IN DIABETIC
MANAGEMENT. Malone JI, Rosenbloom AL,
Grgic A, Weber FT *Am J Dis Child* 130: 1324-7,
Dec 76 (Eng) DL/77MAR443

1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED

1.E.4.2 GLYCOSURIA, COMPLICATIONS

1.E.4.3 GLYCOSURIA, DIAGNOSIS

[COMPARISON OF VARIOUS SEMI-QUAN-
TITATIVE TESTS FOR DETERMINATION OF
URINARY GLUCOSE IN DIABETICS
(AUTHORS TRANSL)] Dorchy H, Loeb H
Diabete Metab 1: 87-9, Jun 75 (Fre)
DL/77MAR93

GUAR GUM IN DIABETES [LETTER]. Jenkins
DJ, Wolever TM, Haworth R, Leeds AR,
Hockaday TD *Lancet* 2: 1086-7, 13 Nov 76
(Eng) DL/77MAR238

PLEASE DON'T EAT THE REAGENT.
Anonymous *Pediatr Nurs* 2: 23-4, Nov-Dec 76
(Eng) DL/77MAR306

1.E.4.4 GLYCOSURIA, DRUG THERAPY

HOW MUCH INSULIN MacLaren NK, Cornblath
M *Am J Dis Child* 130: 1307-8, Dec 76 (Eng)
DL/77MAR442

1.E.4.5 GLYCOSURIA, ENZYMOLOGY

1.E.4.6 GLYCOSURIA, ETIOLOGY

1.E.4.7 GLYCOSURIA, METABOLISM

1.E.4.8 GLYCOSURIA, OCCURRENCE

1.E.5 GLYCOSURIA, RENAL

[SOME CHARACTERISTICS OF LACTATION
IN WOMEN WITH RENAL GLYCOSURIA
AND PREDIABETES] Kolodina LN *Akush
Ginekol (Mosk)* 65-6, Jun 76 (Rus)
DL/77MAR454

1.E.6 HYPOGLYCEMIA

HYPOGLYCEMIC PATIENTS REQUIRE SPE-
CIAL PRECAUTIONS. Paravaccchio R, Jarabak
JP *Dent Stud* 54: 61, Feb 76 (Eng)
DL/77MAR79

THE NEUROLOGY OF EXPLOSIVE RAGE. THE
DYSCONTROL SYNDROME. Elliott FA *Practi-
tioner* 217: 51-60, Jul 76 (Eng) DL/77MAR318

THE TREATMENT OF FULMINANT HEPATIC
FAILURE. Terblanche J S *Afr Med J* 50: 1711,
Oct 76 (Eng) DL/77MAR351

LABORATORY DIAGNOSIS OF EN-
DOCRINOLOGICAL DISEASE Lorenz MD,
Cornelius LM *Vet Clin North Am* 6: 687-722,
Nov 76 (Eng) [40] DL/77MAR368

1.E.6.1 HYPOGLYCEMIA, BLOOD

INSULIN COMA THERAPY: DECREASE OF
PLASMA TRYPTOPHAN IN MAN. Baumann P,
M.Gaillard J *J Neural Transm* 39: 309-13, 1976
(Eng) DL/77MAR198

[DETERMINATION OF SERUM INSULIN (AND
CPR)] Nakagawa S *Jpn J Clin Med* 34 suppl:
2281-9, 1976 (Jpn) [127] DL/77MAR228

PLASMA GLUCAGON IN PUPS, DECREASED
BY FASTING, UNAFFECTED BY SO-
MATOSTATIN OR HYPOGLYCEMIA. Hetenyi
G, Kovacevic N, Hall SE, Vranic M *Am J Physiol*
231: 1377-82, Nov 76 (Eng) DL/77MAR450

1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED

BLOOD SUGAR AND BETA-BLOCKERS
[LETTER]. Linton SP, Scott PH, Kendall MJ *Br
Med J* 2: 877-8, 9 Oct 76 (Eng) DL/77MAR16

PROLACTIN AND SOMATOMEDIN STUDIES
IN THE SYNDROME OF GROWTH HOR-
MONE-INDEPENDENT GROWTH. Gluckman
PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-
9, Sep 76 (Eng) DL/77MAR42

DIAZOXIDE, GLIPIZIDE, HYPERTENSION
AND HYPOGLYCAEMIA [LETTER]. Farr MJ
Lancet 2: 1138, 20 Nov 76 (Eng)
DL/77MAR242

SULPHONYLUREAS—ACTION AND USES. Fer-
rier TM *Aust Fam Physician* 5: 865-6, Jul 76
(Eng) DL/77MAR470

1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS

REYES SYNDROME AND VIRAL KETOACIDO-
SIS [LETTER]. Aiyathurai JE *Lancet* 2: 1253, 4
Dec 76 (Eng) DL/77MAR246

[LEUCINE-SENSITIVE HYPOGLYCEMIA AND
ITS DIET THERAPY] Okoh O, Dallmeier M
Munch Med Wochenschr 118: 1505-6, 12 Nov 76
(Ger) DL/77MAR266

[ASSOCIATION OF LANGERHANS
HYPOGLYCEMIC ADENOMA AND
HUNTINGTON CHOREA. 2 CASES
(LETTER)] Charlin A, Bertaud M, Gillet M,
Camelot G, Sava P, Narboni G, Cloche P *Nouv
Presse Med* 5: 2810, 4 Dec 76 (Fre)
DL/77MAR311

SEIZURES AFTER THE AGE OF SIXTY. Carney
LR *Practitioner* 217: 74-81, Jul 76 (Eng)
DL/77MAR320

1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS

[LEUCINE-SENSITIVE HYPOGLYCEMIA AND
ITS DIET THERAPY] Okoh O, Dallmeier M
Munch Med Wochenschr 118: 1505-6, 12 Nov 76
(Ger) DL/77MAR266

1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY

ISOLATED ACTH DEFICIENCY AND
PREGNANCY. Satterfield RG, Williamson HO,
Facog Obstet Gynecol 48: 693-6, Dec 76 (Eng)
DL/77MAR298

1.E.6.6 HYPOGLYCEMIA, ETIOLOGY

1.F DIABETES

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T. *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOGLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W. *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

CONDITIONED HYPOGLYCEMIA. Woods SC. *J Comp Physiol Psychol* 90: 1164-8, Dec 76 (Eng) DL/77MAR182

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C. In: Feldman C, et al., ed. *Immunoenzymatic techniques*. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189

THE BIOCHEMICAL BASIS OF JAMAICAN AKEE POISONING. Billington D, Osmundsen H, Sherratt HS. *N Engl J Med* 295: 1482, 23 Dec 76 (Eng) DL/77MAR267

HEART FAILURE AND HYPOGLYCEMIA. Colt E. *NY State J Med* 76: 2033, Nov 76 (Eng) DL/77MAR293

ISOLATED ACTH DEFICIENCY AND PREGNANCY. Satterfield RG, Williamson HO, Facog. *Obstet Gynecol* 48: 693-6, Dec 76 (Eng) DL/77MAR298

1.E.6.7 HYPOGLYCEMIA, METABOLISM

CORRELATION OF BLOOD AND BRAIN AMINO ACIDS IN HYPOGLYCEMIA AND NORMOGLYCEMIC RATS. Wapnir RA. *Experientia* 32: 1409-11, 15 Nov 76 (Eng) DL/77MAR70

1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY

EVIDENCE AGAINST H& AND K& AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK. In: Betz E, ed. *Ionic actions on vascular smooth muscle*. Berlin, Springer, 1976. W3 5732 1976i. (Eng) DL/77MAR187

1.E.6.9 HYPOGLYCEMIA, THERAPY

1.F DIABETES

1.F.1 ALLOXAN DIABETES (SEE SEC. 1.F.10.2)

1.F.2 DIABETES MELLITUS

TUBERCULOSIS AFTER CORTICOSTEROID THERAPY. Sahn SA, Lakshminarayan S. *Br J Dis Chest* 70: 195-205, Jul 76 (Eng) DL/77MAR5

DIAGNOSIS AND THE DIABETIC PATIENT. Walters F. *Dent Stud* 53: 49-52, May 75 (Eng) DL/77MAR78

CHARACTERISTICS OF HOSPITALIZATIONS AND DEATH CASES OF DIABETIC PATIENTS IN A GENERAL HOSPITAL. Lender M, Menczel J. *Gerontology* 23: 23-30, 1977 (Eng) DL/77MAR135

[CHRONIC GERIATRIC PATIENT IN THE HOSPITAL.] Schubert R, Fussen I. *Fortschr Med* 94: 1651-7, 14 Oct 76 (Ger) DL/77MAR142

SPECIAL NEEDS OF THE GERIATRIC DIABETIC PATIENT. Small D. *J Pract Nurs* 26: 25-7, 36, Nov 76 (Eng) DL/77MAR213

DIABETES EDUCATION — NEEDS FOR THE PATIENT AND PROFESSIONALS. Williams TF. *J Med Soc NJ* 73: 1089-92, Dec 76 (Eng) DL/77MAR215

[SOURCE DOCUMENTS FOR ELECTRONIC DATA PROCESSING IN SELECTED EYE DISEASES.] Majewska K, Czechowicz-Janicka K, Janik J, Semenik H, Ruszkowski J, Doroszewski J. *Klin Oczna* 46: 999-1003, Sep 76 (Pol) DL/77MAR235

GUAR GUM IN DIABETES [LETTER]. Jenkins DJ, Wolever TM, Haworth R, Leeds AR, Hockaday TD. *Lancet* 2: 1086-7, 13 Nov 76 (Eng) DL/77MAR238

TWO MINUTES WITH DIABETES. Whitehouse FW. *Med Times* 104: 97-8, Dec 76 (Eng) DL/77MAR249

[PERSONALITY AND SOCIAL BEHAVIOR OF ADULT DIABETICS.] Lohmann R, Meuter F, Petrides P, Grunkelee D. *Med Welt* 27: 1997-2002, 15 Oct 76 (Ger) DL/77MAR250

DIABETES, EMOTIONAL ASPECTS, AND THE EDUCATION OF THE PATIENT. Welborn TA. *Med J Aust* 2: 572-3, 576, 9 Oct 76 (Eng) DL/77MAR260

[RESULTS OF LONG TERM USE OF A LOW DOSE ESTROPROGESTATIN IN DIABETICS AND HIGH RISK WOMEN.] Perlemuter L, Hazard J, Jouin-Caurier D, Clipet M. *Nouv Presse Med* 5: 2853-6, 11 Dec 76 (Fre) DL/77MAR312

[THE PROBLEM OF ABILITY TO WORK AND THE SUPERVISION OF WORKING PATIENTS WITH DIABETES MELLITUS.] Schunk W. *Z Arztl Fortbild (Jena)* 70: 650-1, 15 Jun 76 (Ger) DL/77MAR389

1.F.2.1 DIABETES MELLITUS, JUVENILE

TREATMENT OF INSULIN-INDUCED LIPOATROPHY. Hulst SG. *Diabetes* 25: 1052-4, Nov 76 (Eng) DL/77MAR119

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD.] Baratonio S, Cerutti F, Miglio C, Carta Q. *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGGT IN CHILDREN.] Baratonio S, Cerutti F, Miglio C, Altare F. *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

GROWTH OF RABBIT AORTIC SMOOTH MUSCLE CELLS IN SERUM FROM PATIENTS WITH JUVENILE DIABETES. Ledet T. *Acta Pathol Microbiol Scand [A]* 84: 508-16, Nov 76 (Eng) DL/77MAR430

[SPORTS IN DIABETIC CHILDREN AND ADOLESCENTS IN THE GERMAN DEMOCRATIC REPUBLIC.] Ludtke E, Haubenreiser H, Schukowski H. *Aerztl Jugendkd* 67: 273-9, Oct 76 (Ger) DL/77MAR438

1.F.3 DIABETES, BIOCHEMISTRY RELATED

1.F.3.1 DIABETES, METABOLISM

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE. *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE. Patel YC, Orci L, Bankier A, Cameron DP. *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN RELATION TO GLUCONEOGENESIS AND LIPOGENESIS. Titheradge MA, Coore HG. *FEBS Lett* 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL.)] Luyckx A. *Diabete Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM. *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerblom HK, Kivirikko KI. *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Willms B, Kobberling J. *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA. *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S. *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI. *Vopr Okhr Materin Det* 21: 61-5, Apr 76 (Rus) DL/77MAR373

THE VALUE OF AMNIOTIC FLUID LECITHIN/SPHINGOMYELIN DETERMINATION IN PREDICTION OF HYALINE MEMBRANE DISEASE. Lofstrand T, Fex G. *Acta Obstet Gynecol Scand* 55: 419-27, 1976 (Eng) DL/77MAR425

EFFECT OF EXERCISE ON GLUCOSE UPTAKE IN DIABETIC ADOLESCENTS. Dorchy H, Ego F, Baran D, Loeb H. *Acta Paediatr Belg* 29: 83-5, Apr-Jun 76 (Eng) DL/77MAR427

1.F.3.2 DIABETES, ENZYMOLOGY

1.F DIABETES

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND DIABETES (AUTHORS TRANSL)] Jaillard J, Sezille G, Fruchart JC, Dewailly P, Romon M *Diabete Metab* 2: 5-9, Mar 76 (Fre) DL/77MAR113

1.F.3.3 DIABETES, BLOOD

PLASMA AMINO ACIDS IN PATIENTS WITH THE CARCINOID SYNDROME. Feldman JM, Plonk JW, Admiral J, Sidbury, JB *Cancer* 38: 2127-31, Nov 76 (Eng) DL/77MAR28

[GLISOXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Happ J, Beyer J, Ulreich F, Schoffing K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETICS. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL)] Ruiton A, Frederich F *Diabete Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

ISOTOPE-DERIVATIVE MEASUREMENTS OF PLASMA NOREPINEPHRINE AND EPINEPHRINE IN MAN. Cryer PE *Diabetes* 25: 1071-82, Nov 76 (Eng) [52] DL/77MAR122

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz KC, King KC, Schwartz AL, Edmunds D, Schwartz R *Diabetes* 25: 1118-22, Dec 76 (Eng) DL/77MAR127

[DETERMINATION OF SERUM TRIGLYCERIDES] Fukui I, Soyama K, Takano K, Kushiro H, Masaki K *Jpn J Clin Med* 34 suppl: 1910-24, 1976 (Jpn) DL/77MAR226

[DETERMINATION OF SERUM INSULIN (AND C-PEPTIDE)] Nakagawa S *Jpn J Clin Med* 34 suppl: 2281-9, 1976 (Jpn) [127] DL/77MAR228

[DETERMINATION OF SERUM GLUCAGON] Morita S, Baba S *Jpn J Clin Med* 34 suppl: 2290-8, 1976 (Jpn) [68] DL/77MAR229

INFLUENCE OF SOMATOSTATIN ON CARBOHYDRATE DISPOSAL AND ABSORPTION IN DIABETES MELLITUS. Wahren J *Lancet* 2: 1213-6, 4 Dec 76 (Eng) DL/77MAR244

A PRACTICAL AND THEORETICAL APPRAISAL OF THE SIGNIFICANCE OF P50 AND 2,3-DIPHOSPHOGLYCERATE DETERMINATIONS IN THE ROUTINE CHEMICAL PATHOLOGY DEPARTMENT. Cook DA *Med Lab Sci* 33: 287-97, Oct 76 (Eng) DL/77MAR248

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

IN VIVO PLATELET FUNCTION IN DIABETES MELLITUS. Fleischman AI, Bierenbaum ML, Stier A, Somol H, Watson PB *Thromb Res* 9: 467-71, Nov 76 (Eng) DL/77MAR359

[STATE OF LIPID METABOLISM AND THE ORGAN OF VISION IN CHILDREN WITH

DIABETES MELLITUS] Ostashevskaja MI, Petrashevskaja MM, Shcherbina RV *Vopr Okhr Materin Det* 21: 17-20, Feb 76 (Rus) DL/77MAR371

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI *Vopr Okhr Materin Det* 21: 61-5, Apr 76 (Rus) DL/77MAR373

[ADENOSINE CYCLIC 3,5 MONOPHOSPHATE IN CHILDREN WITH DIABETES MELLITUS] Kniazev IuA, Golovanova VB, Vakhruшева LL, Arsenova EN, Ermolenko RI *Vopr Okhr Materin Det* 21: 11-3, Aug 76 (Rus) DL/77MAR375

[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATOTOMIZED PATIENTS (AUTHORS TRANSL)] Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

PHAGOCYTIC AND MICROBICIDAL FUNCTION IN DIABETES MELLITUS. Bagdade JD *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 27-34, 1976 (Eng) DL/77MAR416

[PLASMATIC LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *An Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

A SEMIAUTOMATED METHOD FOR THE ESTIMATION OF SERUM HAPTOGLOBIN LEVELS. Shepherd DN, Jonsson A *Biochem Med* 16: 152-6, Oct 76 (Eng) DL/77MAR473

1.F.3.4 DIABETES, URINE

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77MAR93

[URINARY EXCRETION OF CATECHOLAMINES IN OBESE SUBJECTS AND IN DIABETICS (AUTHORS TRANSL)] Giorgino R, Nardelli GM, Scardapane R *Diabete Metab* 2: 11-3, Mar 76 (Fre) DL/77MAR108

DIABETES, EMOTIONAL ASPECTS, AND THE EDUCATION OF THE PATIENT. Welborn TA *Med J Aust* 2: 572-3, 576, 9 Oct 76 (Eng) DL/77MAR260

LABORATORY EVALUATION OF RENAL FUNCTION. Greenhill A, Gruskin AB *Pediatr Clin North Am* 23: 661-79, Nov 76 (Eng) DL/77MAR304

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMATIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblit PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

1.F.4 DIABETES, PHYSIOPATHOLOGY

EFFECTS OF AN EMG BIOFEEDBACK RELAXATION PROGRAM ON THE CONTROL OF DIABETES: A CASE STUDY. Fowler JE, Budzinski TH, VandenBergh RL *Biofeedback Self Regul* 1: 105-12, Mar 76 (Eng) DL/77MAR8

SMALL INTESTINAL TRANSIT IN DIABETICS. Scarpello JH, Greaves M, Sladen GE *Br Med J* 2: 1225-6, 20 Nov 76 (Eng) DL/77MAR20

ARTERIAL PRESSURE IN CLINICALLY APPARENT DIABETICS. Keen H, Track NS,

Sowry GS *Diabete Metab* 1: 159-78, Sep 75 (Eng) DL/77MAR98

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL)] Luyckx A *Diabete Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

[URINARY EXCRETION OF CATECHOLAMINES IN OBESE SUBJECTS AND IN DIABETICS (AUTHORS TRANSL)] Giorgino R, Nardelli GM, Scardapane R *Diabete Metab* 2: 11-3, Mar 76 (Fre) DL/77MAR108

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNervation. Andersen JT, Bradley WE *Diabetes* 25: 1100-5, Dec 76 (Eng) DL/77MAR124

THE INSULIN RECEPTOR: ITS ROLE IN INSULIN RESISTANCE OF OBESITY AND DIABETES. Olefsky JM *Diabetes* 25: 1154-62, Dec 76 (Eng) [83] DL/77MAR130

[EFFECT OF MINERAL WATER ON THE SECRETION OF INSULIN IN AN ACUTE EXPERIMENT] Horni J, Vodza J *Fysiatr Reumatol Vestn* 54: 236-42, Oct 76 (Cze) DL/77MAR145

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMATIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblit PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

ADRENAL FUNCTION IN THE DIABETIC MURINE MOUSE (GENE SYMBOL DBM). Naeser P *Acta Physiol Scand* 98: 395-9, Dec 76 (Eng) DL/77MAR435

1.F.5 DIABETES, IMMUNOLOGY

GENETIC SUSCEPTIBILITY IN DIABETES MELLITUS: ANALYSIS OF THE HLA ASSOCIATION. Cudworth AG, Woodrow JC *Br Med J* 2: 846-8, 9 Oct 76 (Eng) DL/77MAR180

[HEPATITIS-B-S (HBS) ANTIGEN AND ANTIBODIES IN DIABETIC PATIENTS] Thamer G, Hasslacher C, Wahl P, Kommerell B *Dtsch Med Wochenschr* 101: 1692-3, 12 Nov 76 (Ger) DL/77MAR50

CHARACTERIZATION OF ANTIBODIES TO THE INSULIN RECEPTOR: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. Flier JS, Kahn CR, Jarrett DB, Roth J *J Clin Invest* 58: 1442-9, Dec 76 (Eng) DL/77MAR180

PANCREATIC ISLET-CELL AUTOIMMUNITY [LETTER]. Del Prete GF, Bettele C, Bersani G, Romano M, Tiengo A *Lancet* 2: 1090, 13 Nov 76 (Eng) DL/77MAR239

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

DIABETES MELLITUS AND AUTOIMMUNITY [EDITORIAL]. Anonymous *Lancet* 2: 1124-5, 20 Nov 76 (Eng) DL/77MAR241

CURRENT ASPECTS OF AETIOLOGY AND DIAGNOSIS IN DIABETES MELLITUS. Turtle JR *Med J Aust* 2: 458-60, 18 Sep 76 (Eng) DL/77MAR256

1.F DIABETES

[PRELIMINARY OBSERVATIONS ON THE BEHAVIOR OF IMMUNOGLOBULINS IN DIABETICS TREATED BY DIFFERENT METHODS] Bruno A, Innocenti M, Pasquino M, Pugliese F, Zola P *Minerva Med* 67: 3255-60, 20 Oct-76 (Ita) DL/77MAR280

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

[RELATIONSHIP BETWEEN THE COURSE OF DIABETES MELLITUS IN CHILDREN AND INDICES OF COMPLEMENT AND INSULIN ANTIBODY TITERS] Dreval AV, Zhukovskii MA, Shcherbacheva LN, Mikhailova VS *Vopr Okhr Materin Det* 21: 12-7, Feb 76 (Rus) DL/77MAR370

INSULIN INDUCED INSULINITIS. Kloppel G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 107-21, 1976 (Eng) DL/77MAR403

VIRUS INDUCED INSULINITIS IN EXPERIMENTAL ANIMAL MODELS. Craighead JE *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 123-8, 1976 (Eng) DL/77MAR404

AUTOIMMUNE INSULINITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

IMMUNOPATHOGENIC MECHANISMS IN TISSUE DAMAGE. Bendixen G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 15-25, 1976 (Eng) DL/77MAR407

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

THE IMMUNOGENICITY OF INSULIN PREPARATIONS. Chance RE, Root MA, Galloway JA *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 185-98, 1976 (Eng) [38] DL/77MAR410

HIGH AND LOW AFFINITY INSULIN ANTIBODIES. Kerp L, Kasemir H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 211-22, 1976 (Eng) DL/77MAR412

CLINICAL SIGNIFICANCE OF ANTI-INSULIN ANTIBODIES. Andersen OO *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 231-40, 1976 (Eng) DL/77MAR413

PHAGOCYTIC AND MICROBICIDAL FUNCTION IN DIABETES MELLITUS. Bagdade JD *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 27-34, 1976 (Eng) DL/77MAR416

HUMORAL AUTOIMMUNITY IN DIABETES MELLITUS. Bottazzo GF, Doniach D, Poupard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 55-64, 1976 (Eng) DL/77MAR420

ORGAN-SPECIFIC CELL-MEDIATED AUTOIMMUNITY IN DIABETES MELLITUS. Irvine WJ, Mac Cuish AC, Campbell CJ, Duncan LJ *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 65-76, 1976 (Eng) DL/77MAR421

ISLET CHANGES SUGGESTING A POSSIBLE IMMUNE AETIOLOGY OF HUMAN DIABETES MELLITUS. Gepts W *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 95-106, 1976 (Eng) [124] DL/77MAR422

1.F.6 DIABETES COMPLICATIONS AND PATHOLOGY

1.F.6.1 DIABETIC KETOACIDOSIS

1.F.6.1.1 ACIDOSIS, DIABETIC

ACUTE DIABETIC ABDOMEN [LETTER]. Campbell IW, Duncan LJ, Munro JF *Br Med J* 2: 1074, 30 Oct 76 (Eng) DL/77MAR18

[ACUTE FACIAL MUCORMYCOSIS IN A DIABETIC SUBJECT. SUCCESSFUL TREATMENT WITH AMPHOTERICIN B] Olivier R, Legrand R, Lefebvre P *Diabete Metab* 1: 221-5, Dec 75 (Fre) DL/77MAR104

[CONSUMPTION COAGULOPATHY AND ACIDOSIS IN THE DIABETIC PATIENT (AUTHORS TRANSL)] Larcana A, Lambert H, Laprevote-Heully MC, Alexandre P *Diabete Metab* 2: 33-40, Mar 76 (Fre) DL/77MAR112

REYES SYNDROME AND VIRAL KETOACIDOSIS [LETTER]. Aiyathurai JE *Lancet* 2: 1253, 4 Dec 76 (Eng) DL/77MAR246

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ *Med J Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, Damico P, Pesant P, Matte R *Union Med Can* 105: 1810-4, Dec 76 (Fre) DL/77MAR364

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochem Med* 14: 353-67, Dec 75 (Eng) *DL/77MAR557

1.F.6.1.2 DIABETIC COMA

[TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL)] Luft D, Schubert WR, Reichenmiller HE *Dtsch Med Wochenschr* 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA—REPORT OF 2 CASES AND STUDIES OF 63 CASES IN JAPANESE LITERATURE] Ibayashi H, Funakoshi A, Wakasugi H, Nakayama K, Kimura Y *Jpn J Clin Med* 34: 2788-99, 10 Sep 76 (Jpn) DL/77MAR223

[DETERMINATION OF SERUM MAGNESIUM] Yoshida M, Ohno J *Jpn J Clin Med* 34 suppl: 2024-35, 1976 (Jpn) DL/77MAR227

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ *Med J Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

[HYPEROSMOLAR COMATOSE STATES] Mantz JM, Tempe JD, Jaeger A, Kurtz D *Minerva Med* 67: 3643-60, 14 Nov 76 (Ita) DL/77MAR288

[COLLAGEN DISEASES WITH MULTIPLE SYSTEMIC MANIFESTATIONS WITHOUT A BASIC SYMPTOM] Anonymous *Praxis* 65: 1167, 21 Sep 76 (Ger) DL/77MAR321

CURRENT TRENDS IN THE MANAGEMENT OF DIABETIC KETO-ACIDOTIC COMA. Vinik AI *S Afr Med J* 50: 1693-4, Oct 76 (Eng) DL/77MAR349

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

[MYOCARDITIS AND INSULITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hoffmann W, Waldherr R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

HYPEROSMOLAR NON-KETOTIC DIABETIC COMA IN A JUVENILE. Owusu SK, Anterkyi FS, Shaw-Taylor KE, Konotey-Ahulu FI *Ghana Med J* 14: 241-2, Sep 75 (Eng) DL/77MAR397

1.F.6.2 DIABETIC ANGIOPATHIES

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

RAPID ONSET OF PROLIFERATIVE RETINOPATHY IN YOUNG INSULIN-INDEPENDENT DIABETICS. Steel JM, Shenfield GM, Duncan LJ *Br Med J* 2: 852, 9 Oct 76 (Eng) DL/77MAR15

[DIABETES MELLITUS AND HYPERTENSION] Rames I *Cas Lek Cesk* 115: 1238-42, 8 Oct 76 (Cze) DL/77MAR29

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospischal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

ESTROGENS AND ATHEROSCLEROSIS. Ryan KR *Clin Obstet Gynecol* 19: 805-15, Dec 76 (Eng) DL/77MAR43

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

A STUDY OF THE EFFECTS OF HYPOGLYCEMIA AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VI. SUPPLEMENTARY REPORT ON NONFATAL EVENTS IN PATIENTS TREATED WITH TOLBUTAMIDE. Anonymous *Diabetes* 25: 1129-53, Dec 76 (Eng) DL/77MAR129

[CHRONIC GERIATRIC PATIENT IN THE HOSPITAL] Schubert R, Fusgen I *Fortschr Med* 94: 1651-7, 14 Oct 76 (Ger) DL/77MAR142

FAMILIAL GENERALIZED DYSCHROMIC AMYLOIDOSIS CUTIS. Eng AM, Cogan L, Gunnar RM, Blekys I *J Cutan Pathol* 3: 102-8, 1976 (Eng) DL/77MAR183

SPECIAL NEEDS OF THE GERIATRIC DIABETIC PATIENT. Small D *J Pract Nurs* 26: 25-7, 36, Nov 76 (Eng) DL/77MAR213

VASCULAR PROBLEMS OF DIABETES. Stocks AE *Med J Aust* 2: 540-3, 2 Oct 76 (Eng) DL/77MAR259

OUR APPROACH TO THE TREATMENT OF PURE DIABETIC ARTERIOPATHY AND ARTERIOSCLEROTIC ARTERIOPATHY IN DIABETICS] Tomassini M, Marconato R, Bianchi E, Malan E *Minerva Cardioangiol* 24: 253-9, Apr 76 (Ita) DL/77MAR273

1.F DIABETES

[DIABETES MELLITUS AND MICROANGIOPATHY] Goebel FD *Minerva Cardioangiol* 24: 275-80, Apr 76 (Ita) DL/77MAR274

POLYARTERITIS NODOSA INDUCED IN ARTERIOSCLEROTIC, MALE AND FEMALE BREEDER RATS BY CHRONIC ALLOXAN DIABETES. Wexler BC *Paroi Arterielle* 2: 221-39, May 75 (Eng) DL/77MAR302

DIABETIC FOOT CARE. PROBLEMS AND PRACTICAL SUGGESTIONS. Chandler PT *Postgrad Med* 60: 59-63, Dec 76 (Eng) [22] DL/77MAR317

[LONG TERM CONTROL OF DIABETES IN GENERAL PRACTICE] Belser FG *Schweiz Med Wochenschr* 106: 1045-8, 31 Jul 76 (Ger) DL/77MAR343

[DRUG INFORMATION FOR NURSES. OBESITY: THERAPEUTIC MAIN GROUP: ANORECTICS, APPETITE DEPRESSANTS. 3. COMPLICATIONS OF OBESITY] Lumholtz IB *Sygeplejersken* 76: 11, 13 Oct 76 (Dan) DL/77MAR355

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI *Vopr Okhr Materin Det* 21: 61-5, Apr 76 (Rus) DL/77MAR373

[RISK FACTORS OF ARTERIOSCLEROSIS IN PATIENTS WITH SEVERE BRADYCARDIA ARRHYTHMIAS] Hasslacher C, Wahl P, Thorpecken R, Nussel E *Z Kardiol* 65: 890-6, Oct 76 (Ger) DL/77MAR393

INSULIN-ANTI-INSULIN COMPLEXES. Folling I *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 199-209, 1976 (Eng) DL/77MAR411

[HISTOTOPOCHEMICAL INVESTIGATIONS ON ELASTIC MEMBRANES OF BLOOD VESSELS WITH SPECIAL REGARD OF DIABETES MELLITUS. IV. HEAVY METALS (AUTHORS TRANSL)] Opitz M, Von Dorsche HH *Acta Histochem (Jena)* 56: 211-4, 1976 (Ger) DL/77MAR423

URBAN TRAFFIC NOISE, CARDIOCIRCULATORY ACTIVITY AND CORONARY RISK FACTORS. di Cantogno L, Dallerba R, Teagno PS, Cocola L *Acta Otolaryngol [Suppl] (Stockh)* 0: 55-63, 1976 (Eng) DL/77MAR426

[SURGICAL PROBLEMS IN THE TREATMENT OF DIABETICS. PRESENT STATE AND FUTURE PROSPECTS (AUTHORS TRANSL)] Redding R, Lorenz D *Ann Chir* 30: 811-6, Oct 76 (Fre) DL/77MAR463

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS. FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutmer RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526

PROTEIN SYNTHESIS IN CELL-FREE SYSTEMS FROM TOTALLY ISCHEMIC RAT MYOCARDIUM. Hinterberger U, Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 1: 341-7, 1975 (Eng) *DL/77MAR529

STUDY OF DRUGS AFFECTING CHOLESTEROL-INDUCED ATHEROSCLEROSIS IN RABBITS. Kwak YS, Lee KT, Kim DN *Adv Exp Med Biol* 67: 149-67, 1976 (Eng) *DL/77MAR547

1.F.6.3 DIABETIC NEPHROPATHIES

[THERAPY OF DIABETIC GLOMERULOSCLEROSIS (KIMMELSTIEL-WILSON SYNDROME)] Kuhlmann H *Dtsch Med Wochenschr* 101: 1769-72, 26 Nov 76 (Ger) DL/77MAR553

A STUDY OF THE EFFECTS OF HYPOGLYCEMIA AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VI. SUPPLEMENTARY REPORT ON NONFATAL EVENTS IN PATIENTS TREATED WITH TOLBUTAMIDE. Anonymous *Diabetes* 25: 1129-53, Dec 76 (Eng) DL/77MAR129

TRANSPLANTATION VERSUS DIALYSIS IN HIGH RISK PATIENTS. PP. 702-9. Kjellstrand CM, Mauer SM, Shideman JR, Simmons RL, Buselmeier TJ, Najarian JS In *Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a. (Eng) DL/77MAR192*

VASCULAR PROBLEMS OF DIABETES. Stocks AE *Med J Aust* 2: 540-3, 2 Oct 76 (Eng) DL/77MAR259

RENAL MANIFESTATIONS OF SYSTEMIC DISEASES. Becker GJ *Med J Aust* 2: 345-7, 28 Aug 76 (Eng) DL/77MAR262

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND COLFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL)] Rumpf KW, Quellthrost E, Scheler F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Naso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

[DIABETIC NEPHROPATHIES AND THEIR TREATMENT] Janczko D *Pol Tyg Lek* 31: 1989-92, 15 Nov 76 (Pol) DL/77MAR314

[PRECLINICAL DIAGNOSIS OF DIABETIC NEPHROPATHIES WITH THE AID OF RADIOINDICATION METHODS] Leshchinskii LA, Losaberdizze BB, Pimenov LT *Ter Arkh* 48: 73-9, 1976 (Rus) DL/77MAR356

[DIAGNOSIS OF CHRONIC PYELONEPHRITIS IN PREGNANT WOMEN WITH DIABETES MELLITUS] Vasileva ZV, Vtorova VG, Rodoman VE *Vopr Okhr Materin Det* 21: 79-81, Apr 76 (Rus) DL/77MAR374

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Onnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

1.F.6.4 DIABETIC NEUROPATHIES

NEUROPATHY IN EXPERIMENTAL DIABETES [LETTER]. Jakobsen J, Lundbaek K *Br Med J* 2: 878-9, 9 Oct 76 (Eng) DL/77MAR17

SMALL INTESTINAL TRANSIT IN DIABETICS. Scarpello JH, Greaves M, Sladen GE *Br Med J* 2: 1225-6, 20 Nov 76 (Eng) DL/77MAR20

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospichal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

ISOTOPE-DERIVATIVE MEASUREMENTS OF PLASMA NOREPINEPHRINE AND EPINEPHRINE IN MAN. Cryer PE *Diabetes* 25: 1071-82, Nov 76 (Eng) [52] DL/77MAR122

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNERVATION. Andersen JT, Bradley WE *Diabetes* 25: 1100-5, Dec 76 (Eng) DL/77MAR124

ABNORMAL GLUCOSE TOLERANCE AND ARGININE TOLERANCE TESTS IN HUNTINGTONS DISEASE. Podolsky S, Leopold NA *Gerontology* 23: 55-63, 1977 (Eng) DL/77MAR136

[DECOMPRESSION OF INDIVIDUAL NERVES IN ANATOMICAL STRICTURES IN POLYNEUROPATHIES] Skorpil V *Handchirurgie* 8: 127-8, 1976 (Ger) DL/77MAR140

THE AUTONOMOUS HEART IN DIABETIC AUTONOMIC NEUROPATHY [EDITORIAL]. Vaisrub S *JAMA* 236: 2784, 13 Dec 76 (Eng) DL/77MAR218

DIABETIC NEUROPATHY: CLINICAL ASPECTS. Ellenberg M *Metabolism* 25: 1627-55, Dec 76 (Eng) DL/77MAR255

VASCULAR PROBLEMS OF DIABETES. Stocks AE *Med J Aust* 2: 540-3, 2 Oct 76 (Eng) DL/77MAR259

[LONG TERM CONTROL OF DIABETES IN GENERAL PRACTICE] Belser FG *Schweiz Med Wochenschr* 106: 1045-8, 31 Jul 76 (Ger) DL/77MAR343

[DIABETIC NEUROPATHY] Derouiche F, Nagati K *Tunis Med* 54: 573-4, Mar-Apr 76 (Fre) DL/77MAR363

INSULIN-ANTI-INSULIN COMPLEXES. Folling I *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 199-209, 1976 (Eng) DL/77MAR411

1.F.6.5 DIABETIC RETINOPATHY

RAPID ONSET OF PROLIFERATIVE RETINOPATHY IN YOUNG INSULIN-INDEPENDENT DIABETICS. Steel JM, Shenfield GM, Duncan LJ *Br Med J* 2: 852, 9 Oct 76 (Eng) DL/77MAR15

LEUCOCYTE-MIGRATION INHIBITION INDUCED BY UVEORETINAL ANTIGEN IN PATIENTS WITH DIABETIC RETINOPATHY. Aviner Z, Henley WL, Okas S, Leopold IH *Diabetes* 25: 1106-9, Dec 76 (Eng) DL/77MAR125

DIABETIC MACULAR EDEMA. Patz A, Fine SL *Int Ophthalmol Clin* 16: 105-113, Winter 76 (Eng) DL/77MAR157

COMPLICATIONS OF ARGON LASER RETINAL PHOTOCOAGULATION: A FIVE-YEAR STUDY. Little HL *Int Ophthalmol Clin* 16: 145-59, Winter 76 (Eng) DL/77MAR158

RUBY LASER PHOTOCOAGULATION OF PROLIFERATING DIABETIC RETINOPATHY: FIFTH-YEAR FOLLOWUP. Aiello LM, Briones JC *Int Ophthalmol Clin* 16: 15-27, Winter 76 (Eng) DL/77MAR159

PHOTOCOAGULATION IN DIABETIC RETINOPATHY. Arribas NP, Johnston GP, Okun E *Int Ophthalmol Clin* 16: 59-77, Winter 76 (Eng) DL/77MAR160

ARGON LASER PHOTOCOAGULATION OF PROLIFERATIVE DIABETIC RETINOPATHY. Little HL *Int Ophthalmol Clin* 16: 79-103, Winter 76 (Eng) DL/77MAR161

RESEARCH FINDINGS OF POTENTIAL VALUE TO THE PRACTITIONER. Anonymous *JAMA* 237: 19-20, 3 Jan 77 (Eng) DL/77MAR221

[MANIFESTATION OF DIABETES (AUTHORS TRANSL)] Fischer F *Klin Monatsbl Augenheilkd* 168: 784-7, Jun 76 (Ger) DL/77MAR231

[DIABETIC RETINOPATHY TREATED WITH PHOTOCOAGULATION] Ogelska E, Baran L, Huszcza A *Klin Oczna* 46: 1277-9, Nov 76 (Pol) DL/77MAR232

Diabetes Literature—Hierarchical Index

1.F DIABETES

[PANRETINOPHOTOCOAGULATION] Bonnet M, Pingault C, Grange JD *Klin Oczna* 46: 1289-92, Nov 76 (Pol) DL/77MAR233

[PRELIMINARY EXPERIENCES IN THE TREATMENT OF RETINAL DISEASES WITH ARGON LASER] Pecoldowa K, Kaluzny J *Klin Oczna* 46: 1305-11, Nov 76 (Pol) DL/77MAR234

DIABETIC RETINOPATHY AND BLOOD-SUGAR [LETTER]. Katsilambros N *Lancet* 2: 1253, 4 Dec 76 (Eng) DL/77MAR245

VASCULAR PROBLEMS OF DIABETES. Stocks AE *Med J Aust* 2: 340-3, 2 Oct 76 (Eng) DL/77MAR259

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND COLFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL)] Rumpf KW, Quellhroest E, Scheler F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

TREATMENT OF DIABETIC RETINOPATHY. Anonymous *Med Lett Drugs Ther* 18: 107-8, Dec 76 (Eng) DL/77MAR264

ENCOURAGEMENT BREEDS INDEPENDENCE IN THE BLIND DIABETIC. Schulz JM, Williams M *Nursing (Jenkintown)* 6: 19-20, Dec 76 (Eng) DL/77MAR292

[DIABETIC RETINOPATHY; FACTS AND SPECULATIONS] Fankhauser F *Schweiz Med Wochenschr* 106: 1029-34, 31 Jul 76 (Ger) DL/77MAR340

[DIABETIC RETINOPATHY: DOCUMENTATION, EVALUATION OF ITS COURSE AND POSSIBILITIES OF TREATMENT BY PHOTOCOAGULATION] Korner F *Schweiz Med Wochenschr* 106: 1035-40, 31 Jul 76 (Ger) DL/77MAR341

[CORRELATIONS BETWEEN CLINICAL FINDINGS AND THERAPEUTIC MEASURES AND THE COURSE OF DIABETIC RETINOPATHY] Teuscher A *Schweiz Med Wochenschr* 106: 1041-5, 31 Jul 76 (Ger) DL/77MAR342

[STATE OF LIPID METABOLISM AND THE ORGAN OF VISION IN CHILDREN WITH DIABETES MELLITUS] Ostashevskaja MI, Petrashevskaja MM, Shcherbina RV *Vopr Okhr Materin Det* 21: 17-20, Feb 76 (Rus) DL/77MAR371

VARIABLES IN CONTROLLED STUDIES OF DIABETIC RETINOPATHY. Geeracts WJ, Carroll WW *Va Med* 103: 806-10, Nov 76 (Eng) DL/77MAR394

DIABETIC RETINOPATHY STUDY [LETTER]. Anonymous *Am Fam Physician* 14: 29, Dec 76 (Eng) DL/77MAR439

TECHNIQUES OF ARGON LASER PHOTOCOAGULATION OF DIABETIC DISK NEW VESSELS. Little HL, Zweng HC, Jack RL, Vassiliadis A *Am J Ophthalmol* 82: 675-83, Nov 76 (Eng) DL/77MAR447

DIABETIC RETINOPATHY STUDY. ASSESSMENT AND COMPARISON OF RETINAL LESIONS FOR COMPUTER ANALYSIS. Koerner F, Eichenseher N, Koerner U *Albrecht von Graefes Arch Klin Ophthalmol* 201: 47-56, 18 Nov 76 (Eng) DL/77MAR456

VITREORETINAL AND ANTERIOR SEGMENT SURGERY THROUGH THE PARS PLANA: PART I. Michels RG *Ann Ophthalmol* 8: 1353-81, Nov 76 (Eng) DL/77MAR461

1.F.6.6 OTHER COMPLICATIONS OF DIABETES

ACUTE DIABETIC ABDOMEN [LETTER]. Campbell IW, Duncan LJ, Munro JF *Br Med J* 2: 1074, 30 Oct 76 (Eng) DL/77MAR18

ESTROGENS AND ATHEROSCLEROSIS. Ryan KR *Clin Obstet Gynecol* 19: 805-15, Dec 76 (Eng) DL/77MAR43

DIAGNOSIS AND THE DIABETIC PATIENT. Walters F *Dent Stud* 53: 49-52, May 75 (Eng) DL/77MAR78

[DIABETES AND AUTOIMMUNE DISEASES (AUTHORS TRANSL)] Bastenica PA *Diabete Metab* 1: 3-6, Mar 75 (Fre) DL/77MAR82

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirouze J, Carrey E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77MAR89

ARTERIAL PRESSURE IN CLINICALLY APPARENT DIABETICS. Keen H, Track NS, Sowry GS *Diabete Metab* 1: 159-78, Sep 75 (Eng) DL/77MAR98

[MYOCARDIAL INFARCTION IN DIABETICS (AUTHORS TRANSL)] Passa P, Masquet C, Krajevitch A, Brasquer Y, Bouvrain Y *Diabete Metab* 1: 179-83, Sep 75 (Fre) DL/77MAR99

ABNORMAL CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA ON GUAM. Koerner DR *Diabetes* 25: 1055-65, Nov 76 (Eng) DL/77MAR120

A STUDY OF THE EFFECTS OF HYPOGLYCEMIA AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VI SUPPLEMENTARY REPORT ON NONFATAL EVENTS IN PATIENTS TREATED WITH TOLBUTAMIDE. Anonymous *Diabetes* 25: 1129-53, Dec 76 (Eng) DL/77MAR129

RUBY LASER PHOTOCOAGULATION OF PROLIFERATING DIABETIC RETINOPATHY: FIFTH-YEAR FOLLOWUP. Aiello LM, Briones JC *Int Ophthalmol Clin* 16: 15-27, Winter 76 (Eng) DL/77MAR159

[DIET THERAPY OF DIABETES MELLITUS (WITHOUT REFERENCE TO JUVENILE DIABETES)] Sauer H, Nassauer L *Internist (Berlin)* 17: 502-10, Oct 76 (Ger) [48] DL/77MAR163

MALIGNANT EXTERNAL OTITIS. Prasad U J *Laryngol Otol* 90: 963-5, Oct 76 (Eng) DL/77MAR194

DIABETIC OPHTHALMOPLÉGIA. Sung SM, Ryu RJ, Chen RC *J Formosan Med Assoc* 75: 392-402, Jul 76 (Eng) DL/77MAR197

PNEUMOPERITONEUM AND RIGHT UPPER QUADRANT GAS IN A DIABETIC MAN. Butler CF, Fred HL, Carlson V *JAMA* 236: 2789-90, 13 Dec 76 (Eng) DL/77MAR219

[MANIFESTATION OF DIABETES (AUTHORS TRANSL)] Fischer F *Klin Monatsbl Augenheilkd* 168: 784-7, Jun 76 (Ger) DL/77MAR231

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND COLFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL)] Rumpf KW, Quellhroest E, Scheler F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

[DIABETES, OBESITY AND ADENOCARCINOMA OF CORPUS UTERI] Bumma C, Calciati A, Cacciari P, La Grotta G, Falda M *Minerva Med* 67: 3261-6, 20 Oct 76 (Ita) DL/77MAR281

[BILE COMPOSITION IN PATIENTS WITH HIGH RISK OF CHOLELITHIASIS] Ponz De Leon M, Ferrederes R, Carulli N *Minerva Med* 67: 3483-90, 3 Nov 76 (Ita) DL/77MAR284

[CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT] Enzi G, Muggeo M, Tiengo A *Minerva Med* 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285

PERIODONTICS AND DIABETES. Scopp IW *NY J Dent* 47: 9-11, Jan 77 (Eng) DL/77MAR294

DIABETIC FOOT CARE. PROBLEMS AND PRACTICAL SUGGESTIONS. Chandler PT *Postgrad Med* 60: 59-63, Dec 76 (Eng) [22] DL/77MAR317

EARLY MANIFESTATIONS AND INVESTIGATION OF CEREBRAL ARTERIOSCLEROSIS. Gilroy J *Practitioner* 217: 66-73, Jul 76 (Eng) [24] DL/77MAR319

[COLLAGEN DISEASES WITH MULTIPLE SYSTEMIC MANIFESTATIONS WITHOUT A BASIC SYMPTOM] Anonymous *Praxis* 65: 1167, 21 Sep 76 (Ger) DL/77MAR321

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauberli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

[HYPERLIPIDEMIA: PRACTICAL ATTITUDES] Micheli H *Schweiz Med Wochenschr* 106: 929-36, 3 Jul 76 (Fre) DL/77MAR339

[HYPERLIPIDEMIA AND DIABETES] Pometta D *Schweiz Med Wochenschr* 106: 1054-5, 31 Jul 76 (Fre) DL/77MAR345

[GYNECOLOGIC DISEASES IN THE DIABETIC WOMAN] Rey-Stocker I, Grandguillaume P *Schweiz Med Wochenschr* 106: 1056-9, 31 Jul 76 (Fre) DL/77MAR346

REVASCULARIZATION OF THE PERONEAL ARTERY. Dardik H, Ibrahim IM, Sprayregen S, Dardik I *Surg Gynecol Obstet* 143: 946-8, Dec 76 (Eng) DL/77MAR354

[DIABETES MELLITUS AND DEAFNESS] Kozlov Mla, Onegova RF, Petrov VS, Sokoloverova IM *Vestn Otorinolaringol* 21-3, Sep-Oct 76 (Rus) DL/77MAR366

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI *Vopr Okhr Materin Det* 21: 61-5, Apr 76 (Rus) DL/77MAR373

[SYNDROME OF PHYSICAL AND GENITAL INFANTILISM IN CHILDREN WITH SEVERE FORMS OF DIABETES MELLITUS] Martynova MI, Lapchenko LN, Luzianina GA *Vopr Okhr Materin Det* 21: 3-7, Aug 76 (Rus) DL/77MAR377

[VOCATIONAL REHABILITATION OF PATIENTS WITH DIABETES MELLITUS WHO HAVE UNDERGONE SURGERY FOR PULMONARY TUBERCULOSIS] Iatsozhinskii IuD, Petrunik EI, Molotov VN, Kriuchkov VE *Vrach Delo* 108-11, Jul 76 (Rus) DL/77MAR383

[WAYS OF IMPROVING THE DISPENSARIZATION AND SPECIALIZED TREATMENT OF PATIENTS WITH PULMONARY TUBERCULOSIS AND CONCOMITANT DIABETES MELLITUS] Rudin VP, Chuprina MF, Kovalchuk FT *Vrach Delo* 46-7, Jul 76 (Rus) DL/77MAR385

[MYOCARDITIS AND INSULITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hofmann W, Waldherr R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

[RISK FACTORS OF ARTERIOSCLEROSIS IN PATIENTS WITH SEVERE BRADYCARDIA ARRHYTHMIAS] Hasslacher C, Wahl P, Thorpeken R, Nussel E *Z Kardiol* 65: 890-6, Oct 76 (Ger) DL/77MAR393

Diabetes Literature—Hierarchical Index

1.F DIABETES

[SECONDARY DIABETIC XANTHOMATOSIS] Khidryov KhN, Plechistova LA *Vestn Dermatol Venerol* 66-8, Jul 76 (Rus) DL/77MAR395

[PHLEGMON OF THE LARYNX IN A PATIENT WITH DIABETES COMPLICATED BY MEDIASTINITIS] Khasanov SA *Zh Ushn Nos Gorl Bolezn* 102-3, Sep-Oct 76 (Rus) DL/77MAR396

[GYNECOLOGIC DISORDERS IN THE PREVENTION OF JUVENILE DIABETES] Grandguillaume P, Rey I *Soz Praeventivmed* 21: 155-6, Jul-Aug 76 (Fre) DL/77MAR398

TRANSPLANTATION OF THE PANCREAS. Liliehei RC, Ruix JO, Aquino C, Goetz F *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 303-20, 1976 (Eng) DL/77MAR419

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

MAGNESIUM-INDUCED BRADYCARDIA [LETTER]. Berns AS, Kollmeyer KR *Ann Intern Med* 85: 760-1, Dec 76 (Eng) DL/77MAR460

HEARING LOSS IN PATIENTS WITH DIALYSIS AND RENAL TRANSPLANTS. Quick CA *Ann Otol Rhinol Laryngol* 85: 776-90, Nov-Dec 76 (Eng) DL/77MAR462

1.F.6.7 DIABETES PATHOLOGY

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

TREATMENT OF INSULIN-INDUCED LIPOATROPHY. Hulst SG *Diabetes* 25: 1052-4, Nov 76 (Eng) DL/77MAR119

[TRANSVENOUS KIDNEY PUNCTURE. NEW PROCEDURE FOR WITHDRAWAL OF KIDNEY TISSUE] Mathias K, Rohrbach R, Strecker EP, Kauffmann G *Fortschr Med* 94: 1700-4, 21 Oct 76 (Ger) DL/77MAR143

FAMILIAL GENERALIZED DYSCHROMIC AMYLOIDOSIS CUTIS. Eng AM, Cogan L, Gunnar RM, Bleckys I *J Cutan Pathol* 3: 102-8, 1976 (Eng) DL/77MAR183

PERIODONTICS AND DIABETES. Scopp IW *NY J Dent* 47: 9-11, Jan 77 (Eng) DL/77MAR294

[COMPARISON OF THE SIZE OF HEPATOCYTE NUCLEI IN DIABETES AND IN SELECTED DIGESTIVE TRACT DISEASES] Danilewicz M, Danilewiczowa M, Mielczarek H, Pruszczyński M, Torzecki Z *Pol Tyg Lek* 31: 1961-2, 15 Nov 76 (Pol) DL/77MAR313

AUTOIMMUNE INSULINITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

ISLET CHANGES SUGGESTING A POSSIBLE IMMUNE AETIOLOGY OF HUMAN DIABETES MELLITUS. Gepts W *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 95-106, 1976 (Eng) [124] DL/77MAR422

ANIMAL MODEL OF HUMAN DISEASE: DIABETES MELLITUS. Wolf S *Am J Pathol* 85: 805-8, Dec 76 (Eng) DL/77MAR448

1.F.6.8 PREGNANCY IN DIABETES

[SUBMICROSCOPICAL PICTURE OF THE PLACENTA IN DIABETIC MOTHERS (AUTHORS TRANSL.)] Krausova H, Zidovsky J

Cesk Gynekol 41: 564-5, Oct 76 (Cze) DL/77MAR32

[METABOLISM IN THE NEWBORN INFANTS OF DIABETIC MOTHERS DURING THE 1ST DAYS OF LIFE] Pribylova H *Cesk Pediatr* 31: 529-31, Oct 76 (Cze) DL/77MAR33

ACTION OF PROLACTIN ON ORNITHINE DECARBOXYLASE ACTIVITY IN MAMMARY GLAND EXPLANTS OF MICE. Rillema JA *Endocr Res Commun* 3: 297-305, 1976 (Eng) DL/77MAR55

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL.)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77MAR89

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL.)] Ruitton A, Frederich F *Diabete Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL.)] Girard J, Ferre P, Gilbert M *Diabete Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R *Diabetes* 25: 1118-22, Dec 76 (Eng) DL/77MAR127

ISOLATED MAMMALIAN HEPATOCYTES IN CULTURE. Jeejeebhoy K, Phillips MJ *Gastroenterology* 71: 1086-96, Dec 76 (Eng) [121] DL/77MAR132

PRODUCTION OF POLYMETHYL-GALACTURONASE AND CELLULASE AND ITS RELATIONSHIP WITH VIRULENCE IN ISOLATES OF SCLEROTINIA SCLEROTIUM (LIB.) DE BARY. Rai JN, Dhawan S *Indian J Exp Biol* 14: 196-7, Mar 76 (Eng) DL/77MAR154

LOCALIZATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) BY IMMUNOHISTOCHEMICAL METHOD IN NORMAL AND PATHOLOGICAL HUMAN PLACENTA. PF. 373-8. Genbacev O, Sulovic V *In0 Feldman C, et al, ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 I35 no.2* 1975. (Eng) DL/77MAR188

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

[EXPERIENCES WITH MONOCOMPONENT INSULIN] Fagerberg SE, Gamstedt A *Lakartidnngen* 73: 4097-9, 17 Nov 76 (Swe) DL/77MAR236

PREDICTION OF FETAL OUTCOME BY URINARY ESTRIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHA-FETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

FETAL BIPARIETAL DIAMETER AS A PREDICTOR OF A MATURE LECITHIN/SPHINGOMYELIN RATIO. Goldstein P, Gershenson D, Hobbins JC *Obstet Gynecol* 48: 667-9, Dec 76 (Eng) DL/77MAR296

CORRELATION BETWEEN MORNING URINE ESTRIOL CONCENTRATION AND 24-HOUR ESTRIOL EXCRETION. Biezenski JJ, Facog, Millner SN *Obstet Gynecol* 48: 678-81, Dec 76 (Eng) DL/77MAR297

ISOLATED ACTH DEFICIENCY AND PREGNANCY. Satterfield RG, Williamson HO, Facog *Obstet Gynecol* 48: 693-6, Dec 76 (Eng) DL/77MAR298

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

LABORATORY EVALUATION OF RENAL FUNCTION. Greenhill A, Gruskin AB *Pediatr Clin North Am* 23: 661-79, Nov 76 (Eng) DL/77MAR304

[CARBOHYDRATE METABOLISM IN CHILDREN BORN TO WOMEN WITH DIABETES MELLITUS] Vtorova VG, Savchenko TN, Loseva IV, Vishnevskii FE *Vopr Okhr Materin Det* 21: 9-12, Feb 76 (Rus) DL/77MAR372

[DIAGNOSIS OF CHRONIC PYELONEPHRITIS IN PREGNANT WOMEN WITH DIABETES MELLITUS] Vasileva ZV, Vtorova VG, Rodoman VE *Vopr Okhr Materin Det* 21: 79-81, Apr 76 (Rus) DL/77MAR374

[LIPID SPECTRUM OF BLOOD IN PREGNANT WOMEN WITH DIABETES MELLITUS] Grianova IM, Kniazev luA, Vtorova VG, Sebko TV *Vopr Okhr Materin Det* 21: 75-8, Aug 76 (Rus) DL/77MAR379

[MUTATIONAL-METABOLIC MODEL OF CARCINOGENESIS AND THE PROGRESSION OF THE NEOPLASTIC PROCESS] Dilman VM *Vopr Onkol* 22: 3-16, 1976 (Rus) DL/77MAR381

[CREATININE DURING PREGNANCY (AUTHORS TRANSL.)] Gitsch E *Wien Klin Wochenschr* 88: 740-2, 26 Nov 76 (Ger) DL/77MAR387

THE VALUE OF AMNIOTIC FLUID LECITHIN/SPHINGOMYELIN DETERMINATION IN PREDICTION OF HYALINE MEMBRANE DISEASE. Lofstrand T, Fex G *Acta Obstet Gynecol Scand* 55: 419-27, 1976 (Eng) DL/77MAR425

HISTOENZYMATIC EXAMINATION OF TROPHOBLAST FROM EARLY PREGNANCY COMPLICATED BY DIABETES MELLITUS. Liebhart M, Janczewska E, Klosinska-Kita E *Acta Med Pol* 17: 175-82, 1976 (Eng) DL/77MAR436

ADRENOCORTICAL-RELATED MATURATIONAL EVENTS IN THE FETUS. Liggins GC *Am J Obstet Gynecol* 126: 931-41, 1 Dec 76 (Eng) [68] DL/77MAR445

SCREENING FOR GESTATIONAL DIABETES BY PLASMA GLUCOSE LEVELS [LETTER]. Amankwah KS *Am J Obstet Gynecol* 126: 1052, 15 Dec 76 (Eng) DL/77MAR446

[SOME CHARACTERISTICS OF LACTATION IN WOMEN WITH RENAL GLYCOSURIA AND PREDIABETES] Kolodina LN *Akush Ginekol (Mosk)* 65-6, Jun 76 (Rus) DL/77MAR454

[INFLUENCE OF FEATURES OF THE ACT OF DELIVERY IN DIABETIC WOMEN ON THE CONCENTRATION OF GLUCOCORTICOID HORMONES IN THE BLOOD AND URINE OF NEWBORNS] Kalinina LM *Akush Ginekol (Mosk)* 5: 44-7, May 76 (Rus) DL/77MAR455

1.F DIABETES

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

INDIVIDUAL FREE FATTY ACIDS IN AMNIOTIC FLUID AND IN PLASMA OF PREGNANT WOMEN. Hagenfeldt L, Hagenfeldt K *Br J Obstet Gynaecol* 83: 383-6, May 76 (Eng) *DL/77MAR481

THE EFFECT OF MATERNAL HYPOTHYROIDISM ON MATERNAL AND FETAL TISSUE GLUCOSE-1-14C INCORPORATION IN RATS. Porterfield SP, Hendrich CE *Horm Res* 6: 236-46, 1975 (Eng) *DL/77MAR504

[BEHAVIOR OF CALCIUM, INORGANIC PHOSPHORUS, MAGNESIUM AND GLUCOSE CONCENTRATIONS IN THE PLASMA OF EWES IN THE PERINATAL PERIOD] Brenner K, Seidel H *Arch Exp Veterinaarmed* 29: 939-45, Dec 75 (Ger) *DL/77MAR553

1.F.7 DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS

1.F.7.1 DIABETES, OCCURRENCE

[THE PROBLEM OF INCREASING MORBIDITY RATE AMONG MEMBERS OF HOMES FOR THE AGED] Kalista V *Cesk Zdrav* 24: 386-9, Sep 76 (Cze) DL/77MAR34

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

CHARACTERISTICS OF HOSPITALIZATIONS AND DEATH CASES OF DIABETIC PATIENTS IN A GENERAL HOSPITAL. Lender M, Mencil J *Gerontology* 23: 23-30, 1977 (Eng) DL/77MAR135

EPIDEMIOLOGY OF DISEASES IN ADULT MALES WITH LEUKEMIA. Gibson R, Graham S, Lilienfeld A, Schuman L, Levin M, Swanson M *J Natl Cancer Inst* 56: 891-8, May 76 (Eng) DL/77MAR216

[STUDIES ON CLINICAL PREDICTION OF MYOCARDIAL INFARCTION: QUANTIFICATIONS OF CORONARY RISK FACTORS (AUTHORS TRANSL)] Kato K *Jpn Circ J* 40: 1041-3, 1055-66, Sep 76 (Jpn) DL/77MAR222

[PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES] Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccili MP *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283

[EPIDEMIOLOGICAL STUDIES CONCERNING DIABETES MELLITUS IN ROMANIA. PREMISES, METHODOLOGY AND RESULTS] Mincou I, Dumitrescu C, Stanesco J *Med Interne* 14: 241-51, Oct-Dec 76 (Fre) DL/77MAR334

EPIDEMIOLOGICAL BACKGROUND TO DIABETES. Gamble DR, Taylor KW *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 161-6, 1976 (Eng) DL/77MAR408

1.F.7.2 DIABETES, ETIOLOGY

[DIABETES MELLITUS SECONDARY TO LIVER DISEASES. A REVIEW (AUTHORS TRANSL)] Guillon J, Charbonnel B *Diabete Metab* 1: 191-9, Sep 75 (Fre) [58] DL/77MAR101

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

DIABETES MELLITUS AND AUTOIMMUNITY [EDITORIAL]. Anonymous *Lancet* 2: 1124-5, 20 Nov 76 (Eng) DL/77MAR241

CURRENT ASPECTS OF AETIOLOGY AND DIAGNOSIS IN DIABETES MELLITUS. Turtle JR *Med J Aust* 2: 458-60, 18 Sep 76 (Eng) DL/77MAR256

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

[THE INCIDENCE OF DIABETES MELLITUS IN OBESITY-ASSOCIATED HYPERTENSION] Erno K, Katalin K *Orv Hetil* 117: 2737-8, 7 Nov 76 (Hun) DL/77MAR301

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

[DRUG INFORMATION FOR NURSES. OBESITY; THERAPEUTIC MAIN GROUP: ANORECTICS, APPETITE DEPRESSANTS. 3. COMPLICATIONS OF OBESITY] Lumholtz JB *Sygeplejersken* 76: 11, 13 Oct 76 (Dan) DL/77MAR355

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

[GENEALOGICAL CHARACTERISTICS OF CHILDREN FROM DIABETIC FAMILIES] Stulii LA *Vopr Okhr Materin Det* 21: 7-11, Aug 76 (Rus) DL/77MAR378

[STATISTICAL RELATIONSHIPS BETWEEN FOOD SUPPLY AND THE MORTALITY OF SOME CHRONIC DEGENERATIVE DISEASES IN EIGHT INDUSTRIALLY DEVELOPED COUNTRIES] Hacnel H, Ulbricht G, Oehmsch W, Erhardt V *Z Gesamte Hyg* 22: 748-58, 1976 (Ger) DL/77MAR390

INSULIN INDUCED INSULINITIS. Kloppel G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 107-21, 1976 (Eng) DL/77MAR403

VIRUS INDUCED INSULINITIS IN EXPERIMENTAL ANIMAL MODELS. Craighead JE *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 123-8, 1976 (Eng) DL/77MAR404

REGENERATION OF ISLET CELLS. Hellerstrom C, Andersson A, Gunnarsson R *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 145-60, 1976 (Eng) [73] DL/77MAR406

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

1.F.7.3 DIABETES, CONGENITAL

1.F.7.4 DIABETES, FAMILIAL AND GENETIC

GENETIC SUSCEPTIBILITY IN DIABETES MELLITUS: ANALYSIS OF THE HLA ASSOCIATION. Cudworth AG, Woodrow JC *Br Med J* 2: 846-8, 9 Oct 76 (Eng) DL/77MAR14

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

[GENETICS OF DIABETES MELLITUS (AUTHORS TRANSL)] Feingold J *Diabete Metab* 1: 123-9, Jun 76 (Fre) [34] DL/77MAR94

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

[HYPERLIPIDEMIA AND DIABETES] Pometta D *Schweiz Med Wochenschr* 106: 1054-5, 31 Jul 76 (Fre) DL/77MAR345

SACRAL AGENESIS. ANALYSIS OF 22 CASES. White RI, Klauber GT *Urology* 8: 521-5, Dec 76 (Eng) DL/77MAR365

[CARBOHYDRATE METABOLISM IN CHILDREN BORN TO WOMEN WITH DIABETES MELLITUS] Vitorova VG, Savchenko TN, Loseva IV, Vishnevskii FE *Vopr Okhr Materin Det* 21: 9-12, Feb 76 (Rus) DL/77MAR372

[GENEALOGICAL CHARACTERISTICS OF CHILDREN FROM DIABETIC FAMILIES] Stulii LA *Vopr Okhr Materin Det* 21: 7-11, Aug 76 (Rus) DL/77MAR378

EPIDEMIOLOGICAL BACKGROUND TO DIABETES. Gamble DR, Taylor KW *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 161-6, 1976 (Eng) DL/77MAR408

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

ISLET CHANGES SUGGESTING A POSSIBLE IMMUNE AETIOLOGY OF HUMAN DIABETES MELLITUS. Gepts W *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 95-106, 1976 (Eng) [124] DL/77MAR422

ADRENAL FUNCTION IN THE DIABETIC MUTANT MOUSE (GENE SYMBOL DBM). Naeser P *Acta Physiol Scand* 98: 395-9, Dec 76 (Eng) DL/77MAR435

[PLASMATIC LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN]

Diabetes Literature—Hierarchical Index

1.F DIABETES

DREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *Am Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

1.F.7.5 PREDIABETIC STATE

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL)] Luyckx A *Diabete Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL)] Schimmler W, Schuderer A, Kurz M *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

[SOME CHARACTERISTICS OF LACTATION IN WOMEN WITH RENAL GLYCOSURIA AND PREDIABETES] Kolodina LN *Akush Ginekol (Mosk)* 65-6, Jun 76 (Rus) DL/77MAR454

1.F.8 DIABETES, DIAGNOSIS RELATED

1.F.8.1 GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)

1.F.8.2 DIABETES, DIAGNOSIS

RAPID ONSET OF PROLIFERATIVE RETINOPATHY IN YOUNG INSULIN-INDEPENDENT DIABETICS. Steel JM, Shenfield GM, Duncan LJ *Br Med J* 2: 852, 9 Oct 76 (Eng) DL/77MAR15

DIAGNOSIS AND THE DIABETIC PATIENT. Walters F *Dent Stud* 53: 49-52, May 75 (Eng) DL/77MAR78

[PROPORTION OF LOW INSULIN RESPONSE TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

CURRENT ASPECTS OF AETIOLOGY AND DIAGNOSIS IN DIABETES MELLITUS. Turtle JR *Med J Aust* 2: 458-60, 18 Sep 76 (Eng) DL/77MAR256

SKIN IN SYSTEMIC DISEASE. Turner TW *Aust Fam Physician* 5: 890-6, 901, 905, Aug 76 (Eng) DL/77MAR472

1.F.9 DIABETES, THERAPY RELATED

1.F.9.1 DIABETES, PREVENTION AND CONTROL

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL)] Schimmler W, Schuderer A, Kurz M *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

[GYNECOLOGIC DISORDERS IN THE PREVENTION OF JUVENILE DIABETES] Grandguillaume P, Rey I *Soz Praeventivmed* 21: 155-6, Jul-Aug 76 (Fre) DL/77MAR398

1.F.9.2 DIABETES, NUTRITION AND DIET THERAPY

1.F.9.2.1 OBESITY IN DIABETES

[PROPORTION OF LOW INSULIN RESPONSE TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77MAR89

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND DIABETES (AUTHORS TRANSL)] Jaillard J, Sezille G, Fruchart JC, Dewailly P, Romon M *Diabete Metab* 2: 5-9, Mar 76 (Fre) DL/77MAR113

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R *Diabetes* 25: 1118-22, Dec 76 (Eng) DL/77MAR127

[DIET THERAPY OF DIABETES MELLITUS (WITHOUT REFERENCE TO JUVENILE DIABETES)] Sauer H, Nassauer L *Internist (Berlin)* 17: 502-10, Oct 76 (Ger) [48] DL/77MAR163

DIABETES SEMINAR FOR THE PUBLIC IN A RURAL AREA IN UTAH. Gines D *J Am Diet Assoc* 69: 651-2, Dec 76 (Eng) DL/77MAR184

THE EFFECT OF AN ANORECTIC AGENT (MAZINDOL) ON CONTROL OF OBESITY. Sanders M, Breidahl H *Med J Aust* 2: 576-7, 9 Oct 76 (Eng) DL/77MAR261

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baratonio S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGGT IN CHILDREN] Baratonio S, Cerutti F, Miglio C, Altare F *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

[THE INCIDENCE OF DIABETES MELLITUS IN OBESITY-ASSOCIATED HYPERTENSION] Erno K, Katalin K *Orv Hetil* 117: 2737-8, 7 Nov 76 (Hun) DL/77MAR301

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

1.F.9.2.2 GLUCOSE, THERAPEUTIC USE

POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY. Machtyer I, Syrkis I, Niasimov MR, Lobel H *J Am Geriatr Soc* 24: 534-7, Dec 76 (Eng) DL/77MAR185

INSULIN COMA THERAPY: DECREASE OF PLASMA TRYPTOPHAN IN MAN. Baumann P, M.Gaillard J *J Neural Transm* 39: 309-13, 1976 (Eng) DL/77MAR198

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ *Med J Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

EXPERIMENTAL CORONARY OCCLUSION IN CALVES: THE EFFECT OF HYPERGLYCAEMIA ON VENTRICULAR FIBRILLATION THRESHOLD. Egerton WS, Balderson G *Aust NZ J Surg* 46: 92-6, Feb 76 (Eng) *DL/77MAR554

1.F.9.2.3 DIET

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESITY PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gordon P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Ger) DL/77MAR174

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL)] Schimmler W, Schuderer A, Kurz M *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

[STATISTICAL RELATIONSHIPS BETWEEN FOOD SUPPLY AND THE MORTALITY OF SOME CHRONIC DEGENERATIVE DISEASES IN EIGHT INDUSTRIALLY DEVELOPED COUNTRIES] Haenel H, Ulbricht G, Oehmisch W, Erhardt V *Z Gesamte Hyg* 22: 748-58, 1976 (Ger) DL/77MAR390

DIETARY AND MEDICAL TREATMENTS OF OBESITY: AN EVALUATIVE REVIEW. Chlouverakis C *Addict Behav* 1: 3-21, Jul 75 (Eng) DL/77MAR437

ANIMAL MODEL OF HUMAN DISEASE: DIABETES MELLITUS. Wolf S *Am J Pathol* 85: 805-8, Dec 76 (Eng) DL/77MAR448

TOLERANCE AND ACCEPTABLE DAILY INTAKE OF ETHYLENE DICHLORIDE IN THE CHICKEN DIET. Alumot E, Meidler M, Holstein P *Food Cosmet Toxicol* 14: 111-4, Apr 76 (Eng) *DL/77MAR503

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H *Verh Dtsch Ges Inn Med* 81: 1411-5, 1975 (Ger) *DL/77MAR537

1.F.9.2.4 DIABETIC DIET

DIETS FOR DIABETICS: NO ADDED SUCROSE [LETTER]. Trowell H *Br Med J* 2: 1196, 13 Nov 76 (Eng) DL/77MAR19

[DIET THERAPY OF DIABETES MELLITUS (WITHOUT REFERENCE TO JUVENILE DIABETES)] Sauer H, Nassauer L *Internist (Berlin)* 17: 502-10, Oct 76 (Ger) [48] DL/77MAR163

DIABETES SEMINAR FOR THE PUBLIC IN A RURAL AREA IN UTAH. Gines D *J Am Diet Assoc* 69: 651-2, Dec 76 (Eng) DL/77MAR184

SPECIAL NEEDS OF THE GERIATRIC DIABETIC PATIENT. Small D *J Pract Nurs* 26: 25-7, 36, Nov 76 (Eng) DL/77MAR213

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baratonio S, Cerutti F, Miglio C, Carta Q *Miner-*

1.F DIABETES

va Med 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGGT IN CHILDREN] Barotono S, Cerutti F, Miglio C, Altare F Minerva Med 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

IN DIABETIC DIETS, REALISM GETS RESULTS. Kaufmann SJ Nursing (Jenkintown) 6: 75-7, Nov 76 (Eng) DL/77MAR291

1.F.9.2.5 DIETARY CARBOHYDRATES

[DIET THERAPY OF DIABETES MELLITUS (WITHOUT REFERENCE TO JUVENILE DIABETES)] Sauer H, Nassauer L Internist (Berlin) 17: 502-10, Oct 76 (Ger) [48] DL/77MAR163

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W J Clin Endocrinol Metab 43: 1088-93, Nov 76 (Eng) DL/77MAR171

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J J Lipid Res 17: 588-99, Nov 76 (Eng) DL/77MAR195

GUAR GUM IN DIABETES [LETTER]. Jenkins DJ, Wolever TM, Haworth R, Leeds AR, Hockaday TD Lancet 2: 1086-7, 13 Nov 76 (Eng) DL/77MAR238

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL)] Schimmler W, Schuderer A, Kurz M Munch Med Wochenschr 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS. Berdianier CD, Koh ET Am J Clin Nutr 29: 1190-5, Nov 76 (Eng) DL/77MAR440

INVESTIGATIONS ON THE FUNCTION OF THE RAT FORESTOMACH. Kunstir I, Peters K, Gartner K Lab Anim Sci 26: 166-70, Apr 76 (Eng) *DL/77MAR519

1.F.9.2.6 DIETARY FATS

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E Diabete Metab 1: 77-85, Jun 75 (Eng) DL/77MAR92

[DIET THERAPY OF DIABETES MELLITUS (WITHOUT REFERENCE TO JUVENILE DIABETES)] Sauer H, Nassauer L Internist (Berlin) 17: 502-10, Oct 76 (Ger) [48] DL/77MAR163

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J J Lipid Res 17: 588-99, Nov 76 (Eng) DL/77MAR195

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse S Nahrung 20: 823-9, 1976 (Ger) DL/77MAR271

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H Verh Dtsch Ges Inn Med 81: 1411-5, 1975 (Ger) *DL/77MAR537

STUDY OF DRUGS AFFECTING CHOLESTEROL-INDUCED ATHEROSCLEROSIS IN RABBITS. Kwak YS, Lee KT, Kim DN Adv Exp Med Biol 67: 149-67, 1976 (Eng) *DL/77MAR547

NONISOTOPIC METHOD FOR ESTIMATING CHOLESTEROLENEMIA IN THE RAT. Phillips WA, Ratchford JM, Schulta JR Adv Exp Med Biol 67: 251-265, 1976 (Eng) *DL/77MAR548

1.F.9.2.7 CYCLAMATES

1.F.9.2.8 SACCHARIN

1.F.9.3 DIABETES, INSULIN AND THERAPY

1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE

EFFECTS OF AN EMG BIOFEEDBACK RELAXATION PROGRAM ON THE CONTROL OF DIABETES: A CASE STUDY. Fowler JE, Budzynski TH, VandenBergh RL Biofeedback Self Regul 1: 105-12, Mar 76 (Eng) DL/77MAR8

[CHANGES IN FREE FATTY ACID METABOLISM IN RABBITS SUBJECTED TO PROLONGED INSULIN ADMINISTRATION] Marquie G C R Acad Sci [D] (Paris) 283: 519-21, 20 Sep 75 (Fr) DL/77MAR39

[TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL)] Luft D, Schubert WR, Reichenmiller HE Dtsch Med Wochenschr 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF Diabete Metab 1: 211-20, Dec 75 (Eng) DL/77MAR103

CONDITIONED HYPOLYCEMIA. Woods SC J Comp Physiol Psychol 90: 1164-8, Dec 76 (Eng) DL/77MAR182

[ARTIFICIAL PANCREATIC BETA CELLS—THE PRESENT STATUS AND PROSPECT] Shichiri M, Kawamori T, Goriya Y, Shigeta Y Jpn J Clin Med 34: 2886-93, 10 Sep 76 (Jpn) DL/77MAR224

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW Med J Aust 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL N Engl J Med 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

[HOW DO WE COUNSEL OUR DIABETIC PATIENTS] Berger W, Mully K Schweiz Med Wochenschr 106: 1049-53, 31 Jul 76 (Ger) DL/77MAR344

INTRAVENOUS FLUID THERAPY DURING PROLONGED SURGERY. Foster PA S Afr Med J 50: 1659-62, Oct 76 (Eng) DL/77MAR348

THE ROLE OF INTRAVENOUS NUTRITION IN THE MANAGEMENT OF ACUTE RENAL FAILURE. Lee HA S Afr Med J 50: 1703-5, Oct 76 (Eng) DL/77MAR350

[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATOTOMIZED PATIENTS (AUTHORS TRANSL)] Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E Wien Klin Wochenschr 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

HOW MUCH INSULIN. Maclaren NK, Cornblath M Am J Dis Child 130: 1307-8, Dec 76 (Eng) DL/77MAR442

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JJ, Rosenbloom AL, Grgic A, Weber FT Am J Dis Child 130: 1324-7, Dec 76 (Eng) DL/77MAR443

1.F.9.3.2 INSULIN, THERAPEUTIC USE

GENETIC SUSCEPTIBILITY IN DIABETES MELLITUS: ANALYSIS OF THE HLA ASSOCIATION. Cudworth AG, Woodrow JC Br Med J 2: 846-8, 9 Oct 76 (Eng) DL/77MAR14

[HEPATITIS-B-S (HBS) ANTIGEN AND ANTIBODIES IN DIABETIC PATIENTS] Thamer G, Hasslacher C, Wahl P, Kommerell B Dtsch Med Wochenschr 101: 1692-3, 12 Nov 76 (Ger) DL/77MAR50

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirouze J, Cartry E Diabete Metab 1: 113-8, Jun 75 (Fr) DL/77MAR89

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF Diabete Metab 1: 211-20, Dec 75 (Eng) DL/77MAR103

TREATMENT OF INSULIN-INDUCED LIPOATROPHY. Hulst SG Diabetes 25: 1052-4, Nov 76 (Eng) DL/77MAR119

EFFECT OF INSULIN, TOLBUTAMIDE AND PHENFORMIN ON THE SERUM GLYCOPROTEIN CONCENTRATION IN NORMAL RABBITS. Chempakam B, Kurup PA Indian J Exp Biol 14: 117-9, Mar 76 (Eng) DL/77MAR151

POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY. Machtey I, Syrkis I, Nissimov MR, Lobel H J Am Geriatr Soc 24: 534-7, Dec 76 (Eng) DL/77MAR185

[EXPERIENCES WITH MONOCOMPONENT INSULIN] Fagerberg SE, Gamstedt A Lakartidningen 73: 4097-9, 17 Nov 76 (Swe) DL/77MAR236

TWO MINUTES WITH DIABETES. Whitehouse FW Med Times 104: 97-8, Dec 76 (Eng) DL/77MAR249

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ Med J Aust 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW Med J Aust 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

THE EFFECT OF AN ANORECTIC AGENT (MAZINDOL) ON CONTROL OF OBESE DIABETICS. Sanders M, Bredahl H Med J Aust 2: 576-7, 9 Oct 76 (Eng) DL/77MAR261

1.F DIABETES

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

PORTAL VENOUS GOODIES AND FULMINANT VIRAL HEPATITIS [EDITORIAL]. Sherlock S *N Engl J Med* 295: 1535-6, 30 Dec 76 (Eng) DL/77MAR269

[PRELIMINARY OBSERVATIONS ON THE BEHAVIOR OF IMMUNOGLOBULINS IN DIABETICS TREATED BY DIFFERENT METHODS] Bruno A, Innocenti M, Pasquino M, Pugliese F, Zola P *Minerva Med* 67: 3255-60, 20 Oct 76 (Ita) DL/77MAR280

OUTPATIENT MANAGEMENT OF THE JUVENILE DIABETIC. Kennell C *Pediatr Nurs* 2: 19-20, 23, Nov-Dec 76 (Eng) DL/77MAR305

[COLLAGEN DISEASES WITH MULTIPLE SYSTEMIC MANIFESTATIONS WITHOUT A BASIC SYMPTOM] Anonymous *Praxis* 65: 1167, 21 Sep 76 (Ger) DL/77MAR321

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMACTIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblat PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

[CORRELATIONS BETWEEN CLINICAL FINDINGS AND THERAPEUTIC MEASURES AND THE COURSE OF DIABETIC RETINOPATHY] Teuscher A *Schweiz Med Wochenschr* 106: 1041-5, 31 Jul 76 (Ger) DL/77MAR342

[PURITY AND ANTIGENICITY OF THE NEW INSULIN PREPARATIONS] Fankhauser S *Schweiz Med Wochenschr* 106: 1218-25, 4 Sep 76 (Ger) DL/77MAR347

CURRENT TRENDS IN THE MANAGEMENT OF DIABETIC KETO-ACIDOTIC COMA. Vinik AI *S Afr Med J* 50: 1693-4, Oct 76 (Eng) DL/77MAR349

[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATICTOMIZED PATIENTS (AUTHORS TRANSL)] Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

THE IMMUNOGENICITY OF INSULIN PREPARATIONS. Chance RE, Root MA, Galoway JA *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 185-98, 1976 (Eng) [38] DL/77MAR410

HIGH AND LOW AFFINITY INSULIN ANTIBODIES. Kerp L, Kasemir H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 211-22, 1976 (Eng) DL/77MAR412

CLINICAL SIGNIFICANCE OF ANTI-INSULIN-ANTIBODIES. Andersen OO *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 231-40, 1976 (Eng) DL/77MAR413

PHAGOCYTIC AND MICROBICIDAL FUNCTION IN DIABETES MELLITUS. Bagdade JD *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 27-34, 1976 (Eng) DL/77MAR416

HOW MUCH INSULIN. Maclaren NK, Cornblath M *Am J Dis Child* 130: 1307-8, Dec 76 (Eng) DL/77MAR442

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JI, Rosenbloom AL, Grgic A, Weber FF *Am J Dis Child* 130: 1324-7, Dec 76 (Eng) DL/77MAR443

1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY

1.F.9.4.1 ANTIDIABETICS

1.F.9.4.2 TOLBUTAMIDE

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS OF METHYLATION OF SULFONYLUREA DRUGS. Midha KK, Awang DV, McGilvray IJ *Biomed Mass Spectrom* 3: 100-9, Jun 76 (Eng) DL/77MAR9

NON-SATURABLE-CO-OPERATIVE BINDING OF TOLBUTAMIDE TO ISOLATED ISLETS OF LANGERHANS [PROCEEDINGS]. Alric R, Lignon F, Loubatieres AL, Manteghetti M, Puech R *Br J Pharmacol* 58: 450p, Nov 76 (Eng) DL/77MAR12

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D] (Paris)* 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Oldewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

[PROPORTION OF LOW INSULIN RESPONSE TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandridona G, Di Campo-Rougerie C, Mahmoud F *Diabete Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

A STUDY OF THE EFFECTS OF HYPOGLYCEMIA AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VI SUPPLEMENTARY REPORT ON NONFATAL EVENTS IN PATIENTS TREATED WITH TOLBUTAMIDE. Anonymous *Diabetes* 25: 1129-53, Dec 76 (Eng) DL/77MAR129

EFFECT OF INSULIN, TOLBUTAMIDE AND PHENFORMIN ON THE SERUM GLYCOPROTEIN CONCENTRATION IN NORMAL RABBITS. Chempakam B, Kurup PA *Indian J Exp Biol* 14: 117-9, Mar 76 (Eng) DL/77MAR151

AN APPROACH TO A MOLECULAR UNDERSTANDING OF EXOCYTOTIC INSULIN RELEASE. Lazarus NR, Davis B, O'Connor KJ *J Physiol (Paris)* 72: 787-94, Nov 76 (Eng) DL/77MAR209

EFFECT OF INHIBITORS OF STEROL BIOSYNTHESIS ON GROWTH AND SEX-

UALITY OF PYTHIUM AND ZYGORHYNCHUS. Child JJ, Haskins RH *Mycopathologia* 59: 91-3, 24 Sep 76 (Eng) DL/77MAR270

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JI, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES

GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS OF METHYLATION OF SULFONYLUREA DRUGS. Midha KK, Awang DV, McGilvray IJ *Biomed Mass Spectrom* 3: 100-9, Jun 76 (Eng) DL/77MAR9

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D] (Paris)* 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Schlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

CHLOROPROPAMIDE-INDUCED HYPONATREMIA. Piers K *J Clin Endocrinol Metab* 43: 1085-7, Nov 76 (Eng) DL/77MAR170

EFFECT OF INHIBITORS OF STEROL BIOSYNTHESIS ON GROWTH AND SEXUALITY OF PYTHIUM AND ZYGORHYNCHUS. Child JJ, Haskins RH *Mycopathologia* 59: 91-3, 24 Sep 76 (Eng) DL/77MAR270

1.F.9.4.4 PHENFORMIN

CHARACTERIZATION OF PHENFORMIN AND METABOLITES IN PLASMA. Heuclin C, Pene F, Savouret JF, Assan R *Diabete Metab* 1: 234-40, Dec 75 (Eng) DL/77MAR105

EFFECT OF INSULIN, TOLBUTAMIDE AND PHENFORMIN ON THE SERUM GLYCOPROTEIN CONCENTRATION IN NORMAL RABBITS. Chempakam B, Kurup PA *Indian J Exp Biol* 14: 117-9, Mar 76 (Eng) DL/77MAR151

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, DAmico P, Pesant P, Matte R *Union Med Can* 105: 1810-4, Dec 76 (Fre) DL/77MAR364

DIETARY AND MEDICAL TREATMENTS OF OBESITY: AN EVALUATIVE REVIEW. Chlouverakis C *Addict Behav* 1: 3-21, Jul 75 (Eng) DL/77MAR437

1.F DIABETES

THE BIGUANIDES: ACTION AND CLINICAL INDICATIONS. Jerums G *Aust Fam Physician* 5: 1002, 1005, Aug 76 (Eng) DL/77MAR471

1.F.9.4.5 OTHER BIGUANIDES

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77MAR89

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabete Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

CHARACTERIZATION OF PHENFORMIN AND METABOLITES IN PLASMA. Heuclin C, Pene F, Savouret JF, Assan R *Diabete Metab* 1: 234-40, Dec 75 (Eng) DL/77MAR105

[ROLE OF BIGUANIDES IN THE TREATMENT OF DIABETES MELLITUS] Wiart F *Lille Med* 21: 570-4, Aug-Sep 76 (Fre) DL/77MAR247

DIETARY AND MEDICAL TREATMENTS OF OBESITY: AN EVALUATIVE REVIEW. Chlouverakis C *Addict Behav* 1: 3-21, Jul 75 (Eng) DL/77MAR437

THE BIGUANIDES: ACTION AND CLINICAL INDICATIONS. Jerums G *Aust Fam Physician* 5: 1002, 1005, Aug 76 (Eng) DL/77MAR471

[GLUCOSE METABOLISM DURING STEROID AND BIGUANIDE THERAPY USING TRITIATED GLUCOSE] Bottermann P, Schweigart U, Emmler R *Verh Dtsch Ges Inn Med* 81: 1481-4, 1975 (Ger) *DL/77MAR539

1.F.9.5 DIABETES DRUG THERAPY

GENETIC SUSCEPTIBILITY IN DIABETES MELLITUS: ANALYSIS OF THE HLA ASSOCIATION. Cudworth AG, Woodrow JC *Br Med J* 2: 846-8, 9 Oct 76 (Eng) DL/77MAR14

[GLISOXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Happ J, Beyer J, Ulreich F, Schoffling K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

[HEPATITIS-B(S)-HBS) ANTIGEN AND ANTIBODIES IN DIABETIC PATIENTS] Thamer G, Hasslacher C, Wahl P, Kommerell B *Dtsch Med Wochenschr* 101: 1692-3, 12 Nov 76 (Ger) DL/77MAR50

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77MAR89

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabete Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

TREATMENT OF INSULIN-INDUCED LIPOATROPHY. Hulst SG *Diabetes* 25: 1052-4, Nov 76 (Eng) DL/77MAR119

A STUDY OF THE EFFECTS OF HYPOGLYCEMIA AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VI. SUPPLEMENTARY REPORT ON NONFATAL EVENTS IN PATIENTS TREATED WITH TOLBUTAMIDE. Anonymous *Diabetes* 25: 1129-53, Dec 76 (Eng) DL/77MAR129

PRODUCTION OF POLYMETHYL-GALACTURONASE AND CELLULOSE AND ITS RELATIONSHIP WITH VIRULENCE IN ISOLATES OF SCLEROTINIA SCLEROTIUM (LIB.) DE BARY. Rai JN, Dhawan S *Indian J Exp Biol* 14: 196-7, Mar 76 (Eng) DL/77MAR154

ORAL ANTIDIABETICS: PHILOSOPHY AND POLITICS. Bowen AJ *J Med Assoc Ga* 65: 411-4, Nov 76 (Eng) DL/77MAR196

[EXPERIENCES WITH MONOCOMPONENT INSULIN] Fagerberg SE, Gamstedt A *Lakartidningen* 73: 4097-9, 17 Nov 76 (Swe) DL/77MAR236

INFLUENCE OF SOMATOSTATIN ON CARBOHYDRATE DISPOSAL AND ABSORPTION IN DIABETES MELLITUS. Wahren J *Lancet* 2: 1213-6, 4 Dec 76 (Eng) DL/77MAR244

[ROLE OF BIGUANIDES IN THE TREATMENT OF DIABETES MELLITUS] Wiart F *Lille Med* 21: 570-4, Aug-Sep 76 (Fre) DL/77MAR247

TWO MINUTES WITH DIABETES. Whitehouse FW *Med Times* 104: 97-8, Dec 76 (Eng) DL/77MAR249

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

[PRELIMINARY OBSERVATIONS ON THE BEHAVIOR OF IMMUNOGLOBULINS IN DIABETICS TREATED BY DIFFERENT METHODS] Bruno A, Innocenti M, Pasquino M, Pugliese F, Zola P *Minerva Med* 67: 3255-60, 20 Oct 76 (Ita) DL/77MAR280

OUTPATIENT MANAGEMENT OF THE JUVENILE DIABETIC. Kennell C *Pediatr Nurs* 2: 19-20, 23, Nov-Dec 76 (Eng) DL/77MAR305

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblit PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

[THE QUESTION OF ADVERSE EFFECTS OF CLOFIBRATE. EXPERIENCE IN PATIENTS WITH DIABETES MELLITUS] Haser C, Rahlf V, Mehnert H *Ther Ggw* 115: 1382-95, Aug 76 (Ger) DL/77MAR357

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, Damico P, Pesant P, Matte R *Union Med Can* 105: 1810-4, Dec 76 (Fre) DL/77MAR364

[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATICTOMIZED PATIENTS (AUTHORS TRANSL)] Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

THE IMMUNOGENICITY OF INSULIN PREPARATIONS. Chance RE, Root MA, Galloway JA *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 185-98, 1976 (Eng) [38] DL/77MAR410

HIGH AND LOW AFFINITY INSULIN ANTIBODIES. Kerp L, Kasemir H *Acta Endocrinol*

[Suppl] (Kbh) 83 SUPPL 205: 211-22, 1976 (Eng) DL/77MAR412

CLINICAL SIGNIFICANCE OF ANTI-INSULIN-ANTIBODIES. Andersen OO *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 231-40, 1976 (Eng) DL/77MAR413

PHAGOCYTIC AND MICROBICIDAL FUNCTION IN DIABETES MELLITUS. Bagdade JD *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 27-34, 1976 (Eng) DL/77MAR416

HOW MUCH INSULIN MacLaren NK, Cornblath M *Am J Dis Child* 130: 1307-8, Dec 76 (Eng) DL/77MAR442

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JJ, Rosenbloom AL, Grgic A, Weber FT *Am J Dis Child* 130: 1324-7, Dec 76 (Eng) DL/77MAR443

SULPHONYLUREAS—ACTION AND USES. Ferrier TM *Aust Fam Physician* 5: 865-6, Jul 76 (Eng) DL/77MAR470

THE BIGUANIDES: ACTION AND CLINICAL INDICATIONS. Jerums G *Aust Fam Physician* 5: 1002, 1005, Aug 76 (Eng) DL/77MAR471

1.F.9.6 DIABETES THERAPY

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

SUBCUTANEOUS, ISOGENIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

[EFFECT OF MINERAL WATER ON THE SECRETION OF INSULIN IN AN ACUTE EXPERIMENT] Horni J, Vodza J *Fysiatr Reumatol Vestn* 54: 236-42, Oct 76 (Cze) DL/77MAR145

DIABETES SEMINAR FOR THE PUBLIC IN A RURAL AREA IN UTAH. Gines D *J Am Diet Assoc* 69: 651-2, Dec 76 (Eng) DL/77MAR184

DIABETES, EMOTIONAL ASPECTS, AND THE EDUCATION OF THE PATIENT. Welborn TA *Med J Aust* 2: 572-3, 576, 9 Oct 76 (Eng) DL/77MAR260

OUTPATIENT MANAGEMENT OF THE JUVENILE DIABETIC. Kennell C *Pediatr Nurs* 2: 19-20, 23, Nov-Dec 76 (Eng) DL/77MAR305

[DIABETIC NEPHROPATHIES AND THEIR TREATMENT] Janeczko D *Pol Tyg Lek* 31: 1989-92, 15 Nov 76 (Pol) DL/77MAR314

[LONG TERM CONTROL OF DIABETES IN GENERAL PRACTICE] Belser FG *Schweiz Med Wochenschr* 106: 1045-8, 31 Jul 76 (Ger) DL/77MAR343

[HOW DO WE COUNSEL OUR DIABETIC PATIENTS] Berger W, Mully K *Schweiz Med Wochenschr* 106: 1049-53, 31 Jul 76 (Ger) DL/77MAR344

[PURITY AND ANTIGENICITY OF THE NEW INSULIN PREPARATIONS] Fankhauser S *Schweiz Med Wochenschr* 106: 1218-25, 4 Sep 76 (Ger) DL/77MAR347

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Collate H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

1.F DIABETES

1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Oledewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41

1.F.11 DIABETES, VETERINARY

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

1.F.12 DIABETES, HISTORY

[EVALUATION IN CHILDREN OF THE CLINICAL, BIOLOGICAL AND ELECTROENCEPHALOGRAPHIC SIDE EFFECTS OF L-ASPARAGINASE] Olive D, Cartault F, Legras B, Neimann N *Pediatrics* 31: 259-78, Apr 76 (Fre) DL/77MAR307

PASSIVE ENHANCEMENT OF ISOLATED PANCREATIC ISLET ALLOGRAFTS. Finch DR, Morris PJ *Transplantation* 22: 508-12, Nov 76 (Eng) DL/77MAR362

[SIDE EFFECTS AND COMPLICATIONS OF USE OF HORMONAL CONTRACEPTIVES (LITERATURE SURVEY)] Pytel luA, Zolotarev II, Tsomyk VG, Datuashvili TD *Vopr Okhr Materin Det* 21: 79-81, Aug 76 (Rus) DL/77MAR380

[DIABETES MELLITUS INDUCED BY RIFADIN] Bilyk MA *Vrach Delo* 111-2, Jul 76 (Rus) DL/77MAR384

RESTITUTION OF STREPTOZOTOCIN INDUCED DIABETES MELLITUS IN NUDE MICE WITH PANCREATIC GRAFTS FROM THE RAT. Buschard K, Rygaard J *Acta Pathol Microbiol Scand* [C] 84: 221-6, Jun 76 (Eng) DL/77MAR431

1.F.10.2 ALLOXAN DIABETES

POLYARTERITIS NODOSA INDUCED IN ARTERIOSCLEROTIC, MALE AND FEMALE BREEDER RATS BY CHRONIC ALLOXAN DIABETES. Wexler BC *Parot Arterielle* 2: 221-39, May 75 (Eng) DL/77MAR302

EFFECTS OF ALLOXAN INDUCED DIABETES ON THE FEEDING PATTERNS OF RATS. Thomas DW, Scharrer E, Mayer J *J Physiol Behav* 17: 345-9, Aug 76 (Eng) DL/77MAR329

1.F.10.2.1 ALLOXAN DIABETES, BLOOD

1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY

1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY

DIETARY CONTROL OF INTRACELLULAR DISTRIBUTION OF RAT LIVER FUMARASE. Nakashima K, Takeda M, Tuboi S *Biochem Biophys Res Commun* 72: 1562-9, 18 Oct 76 (Eng) DL/77MAR474

1.F.10.2.4 ALLOXAN DIABETES, METABOLISM

NEUROCHEMICAL CORRELATES OF ALLOXAN DIABETES: PROTEIN AND RIBONUCLEIC ACID LEVELS IN THE DIFFERENT REGIONS OF THE RAT BRAIN. Jayashree C, Nayeemunnisa *Experientia* 32: 1412-3, 15 Nov 76 (Eng) DL/77MAR71

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

GLYCEROLKINASE--A REGULATORY ENZYME OF GLUCONEOGENESIS Seitz HJ, Porsche E, Tarnowski W *Acta Biol Med Ger* 35: 141-54, 1976 (Eng) DL/77MAR400

1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

TRANSPLANTATION OF THE PANCREAS. Liliehei RC, Ruix JO, Aquino C, Goetz F *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 303-20, 1976 (Eng) DL/77MAR419

RESTITUTION OF STREPTOZOTOCIN INDUCED DIABETES MELLITUS IN NUDE MICE WITH PANCREATIC GRAFTS FROM THE RAT. Buschard K, Rygaard J *Acta Pathol Microbiol Scand* [C] 84: 221-6, Jun 76 (Eng) DL/77MAR431

1.F.9.7 DIABETES, RADIOGRAPHY

1.F.9.8 DIABETES, SURGERY

[SURGICAL PROBLEMS IN THE TREATMENT OF DIABETICS. PRESENT STATE AND FUTURE PROSPECTS (AUTHORS TRANSL.)] Redding R, Lorenz D *Ann Chir* 30: 811-6, Oct 76 (Fre) DL/77MAR463

1.F.9.9 DIABETES, MORTALITY

[MYOCARDIAL INFARCTION IN DIABETICS (AUTHORS TRANSL.)] Passa P, Masquet C, Kravtchik A, Brasquer Y, Bouvraïn Y *Diabete Metab* 1: 179-83, Sep 75 (Fre) DL/77MAR99

CHARACTERISTICS OF HOSPITALIZATIONS AND DEATH CASES OF DIABETIC PATIENTS IN A GENERAL HOSPITAL. Lender M, Menezel J *Gerontology* 23: 23-30, 1977 (Eng) DL/77MAR135

WHAT MIDDLE-AGED MEN KNOW OF THEIR PARENTS CAUSE OF DEATH AND AGE AT DEATH. A COMPARISON BETWEEN HISTORY AND DEATH CERTIFICATE. Waern U, Hedstrand H, Aberg H *Scand J Soc Med* 4: 123-9, 1976 (Eng) DL/77MAR336

1.F.10 DIABETES, EXPERIMENTAL

1.F.10.1 DIABETES, CHEMICALLY INDUCED

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerblom HK, Kivirikko KI *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLHYDANTOIN. Mackerer CR, Saunders RN, Haettinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217

7
2
5
1
R
7
7
1

2.

2.

2.

2.

2.

2.

2.

TU

1

C

[DI

9

8

AD

1

1

AD

1

2.

PH

C

I

C

I

V

I

[IN

I

C

I

M

C

PA

1

C

I

I

S

4

2.E

ME

I

V

/

2.E

SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

2.B.1 ADRENAL CORTEX

2.B.2 ADRENAL CORTEX HORMONES

TUBERCULOSIS AFTER CORTICOSTEROID THERAPY. Sahn SA, Lakshminarayan S *Br J Dis Chest* 70: 195-205, Jul 76 (Eng) DL/77MAR5

[DRUG INTERACTIONS AND SIDE EFFECTS] Schelling JL *Schweiz Med Wochenschr* 106: 905-8, 3 Jul 76 (Fre) DL/77MAR338

ADRENAL FUNCTION IN THE DIABETIC MUTANT MOUSE (GENE SYMBOL DBM). Naesser P *Acta Physiol Scand* 98: 395-9, Dec 76 (Eng) DL/77MAR435

ADRENOCORTICAL-RELATED MATURATIONAL EVENTS IN THE FETUS. Liggins GC *Am J Obstet Gynecol* 126: 931-41, 1 Dec 76 (Eng) [68] DL/77MAR445

2.B.2.1 GLUCOCORTICOIDS

PHYSIOLOGIC SIGNIFICANCE OF GLUCOCORTICOIDS AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

[INFLUENCE OF FEATURES OF THE ACT OF DELIVERY IN DIABETIC WOMEN ON THE CONCENTRATION OF GLUCOCORTICOID HORMONES IN THE BLOOD AND URINE OF NEWBORNS] Kalinina LM *Akush Ginekol (Mosk)* 5: 44-7, May 76 (Rus) DL/77MAR455

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutmer RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526

2.B.2.1.1 CORTISONE

METABOLISM OF GLYCOGEN IN THE SCORPION HETEROMETRUS SCABER (THOR). Vijayalakshmi NR, Kurup PA *Indian J Exp Biol* 14: 124-6, Mar 76 (Eng) DL/77MAR152

2.B.2.1.2 HYDROCORTISONE

ACTION OF PROLACTIN ON ORNITHINE DECARBOXYLASE ACTIVITY IN MAMMARY GLAND EXPLANTS OF MICE. Rillema JA *Endocr Res Commun* 3: 297-305, 1976 (Eng) DL/77MAR55

SERUM-FREE CULTIVATION OF THYMUS ORGAN FRAGMENTS. Lumb JR, George YS *Fed Proc* 35: 2555-8, Dec 76 (Eng) DL/77MAR77

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabete Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

THE BREAKFAST TOLERANCE TEST: A RETURN TO PHYSIOLOGY. Lefebvre PJ, Luyckx AS *Diabete Metab* 2: 15-9, Mar 76 (Eng) DL/77MAR109

[METABOLIC ACTIVITY OF THE SMALL-FOUR-DATE NEWBORN INFANT] Sann L *Pediatric* 31: 309-13, Apr 76 (Fre) [43] DL/77MAR308

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewka J, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

THE EFFECTS OF LONG-TERM ALTERNATE-DAY STEROIDS ON PARAMETERS OF ADRENAL FUNCTION IN RENAL TRANSPLANT PATIENTS. Keogh B, Chu TM, Murphy GP *J Urol* 115: 487-9, May 76 (Eng) *DL/77MAR516

LETTER: HYPOTHALAMIC/PITUITARY/ADRENAL FUNCTION IN PATIENTS ON CHEMOTHERAPY. Anonymous *Lancet* 1: 1238-9, 5 Jun 76 (Eng) *DL/77MAR520

LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochem Med* 14: 355-67, Dec 75 (Eng) *DL/77MAR557

2.B.2.1.3 OTHER GLUCOCORTICOIDS

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

ISOLATED MAMMALIAN HEPATOCYTES IN CULTURE. Jeejeebhoy K, Phillips MJ *Gastroenterology* 71: 1086-96, Dec 76 (Eng) [121] DL/77MAR132

RESPONSES OF MAMMARY CELLS TO HORMONES. Baerje MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

ISOLATED ACTH DEFICIENCY AND PREGNANCY. Satterfield RG, Williamson HO, Facog *Obstet Gynecol* 48: 693-6, Dec 76 (Eng) DL/77MAR298

[COLLAGEN DISEASES WITH MULTIPLE SYSTEMIC MANIFESTATIONS WITHOUT A BASIC SYMPTOM] Anonymous *Praxis* 65: 1167, 21 Sep 76 (Ger) DL/77MAR321

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewka J, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

THE EFFECTS OF LONG-TERM ALTERNATE-DAY STEROIDS ON PARAMETERS OF ADRENAL FUNCTION IN RENAL TRANSPLANT PATIENTS. Keogh B, Chu TM, Murphy GP *J Urol* 115: 487-9, May 76 (Eng) *DL/77MAR516

LETTER: HYPOTHALAMIC/PITUITARY/ADRENAL FUNCTION IN PATIENTS ON CHEMOTHERAPY. Anonymous *Lancet* 1: 1238-9, 5 Jun 76 (Eng) *DL/77MAR520

[PHYSIOLOGICAL AND BIOCHEMICAL REACTIONS TO A STANDARD BATTERY OF EMOTION-PRODUCING FACTORS] Simonov EE, Dlusskaia IG *Voen Med Zh* 66-9, Feb 76 (Rus) *DL/77MAR534

2.B.2.2 MINERALOCORTICOIDS

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lamintausta R, Syvalahti E, Pekkarinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutmer RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526

2.B.3 ADRENAL MEDULLA

2.B.3.1 EPINEPHRINE

2.C THYROID GLAND

EFFECT OF ADRENALINE ON SUGAR TRANSPORT IN THE PERFUSED LEFT ATRIUM. Bihler I, Sawh PC *Can J Physiol Pharmacol* 54: 714-8, Oct 76 (Eng) DL/77MAR25

HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN RELATION TO GLUCONEOGENESIS AND LIPOGENESIS. Titheradge MA, Coore HG *FEBS Lett* 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabetes Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabetes Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

[URINARY EXCRETION OF CATECHOLAMINES IN OBESE SUBJECTS AND IN DIABETICS (AUTHORS TRANSL)] Giordino R, Nardelli GM, Scardapane R *Diabetes Metab* 2: 11-3, Mar 76 (Fre) DL/77MAR108

ISOTOPE-DERIVATIVE MEASUREMENTS OF PLASMA NOREPINEPHRINE AND EPINEPHRINE IN MAN. Cryer PE *Diabetes* 25: 1071-82, Nov 76 (Eng) [52] DL/77MAR122

[STUDY OF THE EFFECT OF ULTRASOUND ON THE SYMPATHETIC-ADRENAL SYSTEM IN WORKERS] Gerasimova Elu *Gig Sanit* 23-9, Aug 76 (Rus) DL/77MAR139

METABOLISM OF GLYCOCEN IN THE SCORPION HETEROMETRUS SCABER (THOR.). Vijayalekshmi NR, Kurup PA *Indian J Exp Biol* 14: 124-6, Mar 76 (Eng) DL/77MAR152

EFFECT OF ANTECEDENT HORMONE ADMINISTRATION ON LIPOLYSIS IN THE PERFUSED ISOLATED FAT CELL. Solomon SS, Duckworth WC *J Lab Clin Med* 88: 984-94, Dec 76 (Eng) DL/77MAR193

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *Pflugers Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENervation TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Tritley GJ, Bernardis LL *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

CERTAIN BIOCHEMICAL PARAMETERS OF PSYCHOGENIAS. PP. 541-6. Ivanov NA *Ino Levi L, ed. Emotions: their parameters and measurement. New York, Raven Press, 1975. WL 102 E54 1975. (Eng) *DL/77MAR510*

[INFLUENCE OF CHROMIUM AS A TRACE ELEMENT ON THE HORMONAL REGULATION IN THE RAT. 2. PHYSIOLOGICAL FUNCTION OF CHROMIUM IN CARBOHYDRATE METABOLISM] Dhanaschiri H, Brune H *Z Tierphysiol* 36: 201-13, Aug 75 (Ger) *DL/77MAR540

2.B.3.2 NOREPINEPHRINE

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PANCREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3:5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteauvent M, Buneaux JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

[URINARY EXCRETION OF CATECHOLAMINES IN OBESE SUBJECTS AND IN DIABETICS (AUTHORS TRANSL)] Giordino R, Nardelli GM, Scardapane R *Diabetes Metab* 2: 11-3, Mar 76 (Fre) DL/77MAR108

ISOTOPE-DERIVATIVE MEASUREMENTS OF PLASMA NOREPINEPHRINE AND EPINEPHRINE IN MAN. Cryer PE *Diabetes* 25: 1071-82, Nov 76 (Eng) [52] DL/77MAR122

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

CERTAIN BIOCHEMICAL PARAMETERS OF PSYCHOGENIAS. PP. 541-6. Ivanov NA *Ino Levi L, ed. Emotions: their parameters and measurement. New York, Raven Press, 1975. WL 102 E54 1975. (Eng) *DL/77MAR510*

THE EFFECTS OF D,L-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE. PP. 165-71. Walker CA, Charlton CG *Ino Singh JM, Lal H, ed. Drug addiction. Vol 40 New aspects of analytical and clinical toxicology. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) *DL/77MAR511*

EFFECTS OF NOREPINEPHRINE AND THYROXINE ON THE TURNOVER OF PLASMA FREE FATTY ACIDS. Moriya K, Maekubo H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

EFFECTS OF ANOXIA AND GLUCOSE DEPLETION ON ISOLATED VEINS OF THE DOG. Vanhoutte PM *Am J Physiol* 230: 1261-8, May 76 (Eng) *DL/77MAR550

2.B.4 ADRENALECTOMY

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

PHYSIOLOGICAL SIGNIFICANCE OF GLUCOCORTICIDS AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN

RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

GLYCEROLKINASE--A REGULATORY ENZYME OF GLUCONEOGENESIS Seitz HJ, Porsche E, Tarnowski W *Acta Biol Med Ger* 35: 141-54, 1976 (Eng) DL/77MAR400

2.B.5 ADRENAL DISORDERS

[DIABETES AND AUTOIMMUNE DISEASES (AUTHORS TRANSL)] Bastenica PA *Diabetes Metab* 1: 3-6, Mar 75 (Fre) DL/77MAR82

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL)] Luyckx A *Diabetes Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

2.C THYROID GLAND

2.C.1 THYROID HORMONES

IN VITRO SYNTHESIS OF AMYLOID FIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E *Isr J Med Sci* 12: 1137-40, Oct 76 (Eng) DL/77MAR1

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Bull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

[THE EFFECTS OF CALCITONIN, GLUCAGON AND THE DIBUTYRYL DERIVATIVE OF CYCLIC AMP ON PLASMA-RENIN ACTIVITY (AUTHORS TRANSL)] Werning C, Stiel D *Dtsch Med Wochenschr* 101: 1690-2, 12 Nov 76 (Ger) DL/77MAR49

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, *Facog Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

DIETARY AND MEDICAL TREATMENTS OF OBESITY: AN EVALUATIVE REVIEW. Chlouvarakis C *Addict Behav* 1: 3-21, Jul 75 (Eng) DL/77MAR437

2.E PITUITARY GLAND

ADRENOCORTICAL-RELATED MATURATIONAL EVENTS IN THE FETUS. Liggins GC *Am J Obstet Gynecol* 126: 931-41, 1 Dec 76 (Eng) [68] DL/77MAR445

PROPERTIES OF TOAD SKIN NA-K-ATPASE WITH SPECIAL REFERENCE TO EFFECT OF TEMPERATURE. Park YS, Hong SK *Am J Physiol* 231: 1356-63, Nov 76 (Eng) DL/77MAR449

EFFECTS OF NOREPINEPHRINE AND THYROXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Moriya K, Maekubo H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

EFFECT OF PROPRANOLOL ON THYROXINE-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS. Uscilko HK, Brzezinska Z, Greenleaf JE *Acta Physiol Pol* 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543

NONISOTOPIC METHOD FOR ESTIMATING CHOLESTEROLENEMIA IN THE RAT. Phillips WA, Ratchford JM, Schultz JR *Adv Exp Med Biol* 67: 251-265, 1976 (Eng) *DL/77MAR548

2.C.2 THYROID ANTAGONISTS

2.C.3 THYROID DISORDERS

[DIABETES AND AUTOIMMUNE DISEASES (AUTHORS TRANSL)] Bastenica PA *Diabete Metab* 1: 3-6, Mar 75 (Fre) DL/77MAR82

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabete Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND COLFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL)] Rumpf KW, Quellhorst E, Scheler F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

EARLY MANIFESTATIONS AND INVESTIGATION OF CEREBRAL ARTERIOSCLEROSIS. Gilroy J *Practitioner* 217: 66-73, Jul 76 (Eng) [24] DL/77MAR319

THE EFFECT OF MATERNAL HYPOTHYROIDISM ON MATERNAL AND FETAL TISSUE GLUCOSE-1-14C INCORPORATION IN RATS. Porterfield SP, Hendrich CE *Horm Res* 6: 236-46, 1975 (Eng) *DL/77MAR504

2.D PARATHYROID GLANDS

IN VITRO SYNTHESIS OF AMYLOID FIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E *Int J Med Sci* 12: 1137-40, Oct 76 (Eng) DL/77MAR1

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

[DETERMINATION OF SERUM AND URINARY CYCLIC AMP AND GMP] Kimura H *Jpn J Clin Med* 34 suppl: 2369-70, 1976 (Jpn) [80] DL/77MAR230

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

2.E PITUITARY GLAND

2.E.1 PITUITARY HORMONES, ANTERIOR

2.E.1.1 CORTICOTROPIN

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPIC CELLS OF THE HUMAN HYPOPHYSIS] Legros F, Massant B, Uytendhoeuf P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3,5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

SOME PROBLEMS INVOLVED IN POSTEMBEDDING STAINING. PP. 109-15, Vogt A, Tkamiya H, Kim WA *Ino Feldman C, et al., ed. Immunocytochemical techniques. Amsterdam, North-Holland, 1976. W3 I35 no.2 1975. (Eng) DL/77MAR190*

ISOLATED ACTH DEFICIENCY AND PREGNANCY. Satterfield RG, Williamson HO, Facog *Obstet Gynecol* 48: 693-6, Dec 76 (Eng) DL/77MAR298

PERSPECTIVES IN PSYCHONEUROENDOCRINOLOGY. Smythies JR *Psychoneuroendocrinology* 1: 317-9, 1976 (Eng) DL/77MAR330

ADRENOCORTICAL-RELATED MATURATIONAL EVENTS IN THE FETUS. Liggins GC *Am J Obstet Gynecol* 126: 931-41, 1 Dec 76 (Eng) [68] DL/77MAR445

FIBER CONNECTIONS IN THE HYPOTHALAMUS AND SOME AUTONOMIC FUNCTIONS. Ban T *Pharmacol Biochem Behav* 3: 3-13, 1975 (Eng) *DL/77MAR525

2.E.1.2 SOMATOTROPIN

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finn VP, Aleshina LV *Bull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPIC CELLS OF THE HUMAN HYPOPHYSIS] Legros F, Massant B, Uytendhoeuf P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HORMONE-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-9, Sep 76 (Eng) DL/77MAR42

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabete Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

[DIABETES MELLITUS SECONDARY TO LIVER DISEASES. A REVIEW (AUTHORS TRANSL)] Guillon J, Charbonnel B *Diabete Metab* 1: 191-9, Sep 75 (Fre) [58] DL/77MAR101

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabete Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

THE BREAKFAST TOLERANCE TEST: A RETURN TO PHYSIOLOGY. Lefebvre PJ, Luyckx AS *Diabete Metab* 2: 15-9, Mar 76 (Eng) DL/77MAR109

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

ABNORMAL GLUCOSE TOLERANCE AND ARGININE TOLERANCE TESTS IN HUNTINGTONS DISEASE. Podolsky S, Leopold NA *Gerontology* 23: 55-63, 1977 (Eng) DL/77MAR136

RESPONSES OF MAMMARY CELLS TO HORMONES. Banerjee MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Wilms B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

2.D PARATHYROID GLANDS

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRA-VENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

[BEHAVIOR OF PLASMA/INSULIN, SOMATOTROPIN AND NEFA AFTER INTRA-VENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, *Facog Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION. Ceremuzynski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315

[CORRELATIONS BETWEEN CLINICAL FINDINGS AND THERAPEUTIC MEASURES AND THE COURSE OF DIABETIC RETINOPATHY] Teuscher A *Schweiz Med Wochenschr* 106: 1041-3, 31 Jul 76 (Ger) DL/77MAR342

[SOMATOTROPIC FUNCTION OF THE PITUITARY IN OBESITY] Epstein EV *Vrach Delo* 105-8, Jul 76 (Rus) DL/77MAR382

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lammintausta R, Syvalahti E, Pekkarinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

A NOVEL CYCLIC UNDERCAPEPTIDE, WY-40, 770, WITH PROLONGED GROWTH HORMONE RELEASE INHIBITING ACTIVITY. Sarantakis D, Teichman J, Lien EL, Fenichel RL *Biochem Biophys Res Commun* 73: 336-42, 22 Nov 76 (Eng) DL/77MAR477

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

ALPHA ADRENERGIC CONTROL OF GROWTH HORMONE IN ADULT MALE RATS. Ruch W, Jaton AL, Bucher B, Marbach P, Doepfner W *Experientia* 32: 329-31, 15 Apr 76 (Eng) *DL/77MAR501

LETTER: HYPOTHALAMIC/PITUITARY/ADRENAL FUNCTION IN PATIENTS ON CHEMOTHERAPY. Anonymous *Lancet* 1: 1238-9, 5 Jun 76 (Eng) *DL/77MAR520

FIBER CONNECTIONS IN THE HYPOTHALAMUS AND SOME AUTONOMIC FUNCTIONS. Ban T *Pharmacol Biochem Behav* 3: 3-13, 1975 (Eng) *DL/77MAR525

2.E.1.3 THYROTROPIN

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, *Facog Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

FIBER CONNECTIONS IN THE HYPOTHALAMUS AND SOME AUTONOMIC FUNCTIONS. Ban T *Pharmacol Biochem Behav* 3: 3-13, 1975 (Eng) *DL/77MAR525

2.E.1.4 GONADOTROPINS, PITUITARY

PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HORMONE-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-9, Sep 76 (Eng) DL/77MAR42

ACTION OF PROLACTIN ON ORNITHINE DECARBOXYLASE ACTIVITY IN MAMMARY GLAND EXPLANTS OF MICE. Rillema JA *Endocr Res Commun* 3: 297-305, 1976 (Eng) DL/77MAR55

THE CHEMISTRY OF TRYPTOPHAN IN PEPTIDES AND PROTEINS. Fontana A, Toniolo C *Fortscr Chem Org Naturst* 33: 309-449, 1976 (Eng) [467] DL/77MAR141

RESPONSES OF MAMMARY CELLS TO HORMONES. Banerjee MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, *Facog Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

FIBER CONNECTIONS IN THE HYPOTHALAMUS AND SOME AUTONOMIC FUNCTIONS. Ban T *Pharmacol Biochem Behav* 3: 3-13, 1975 (Eng) *DL/77MAR525

2.E.2 PITUITARY HORMONES, POSTERIOR

CHLORPROPAMIDE-INDUCED HYPONATREMIA. Piters K *J Clin Endocrinol Metab* 43: 1085-7, Nov 76 (Eng) DL/77MAR170

MECHANISM OF INHIBITION OF GASTRIC ACID SECRETION BY HYPERTONIC SOLUTIONS AND VASOPRESSIN. Limlomwongse L, Nophakoon J, Thithapandha A *Pfuegers Arch* 366: 159-65, 5 Nov 76 (Eng) DL/77MAR309

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

PROPERTIES OF TOAD SKIN NA-K-ATPASE WITH SPECIAL REFERENCE TO EFFECT OF TEMPERATURE. Park YS, Hong SK *Am J Physiol* 231: 1356-63, Nov 76 (Eng) DL/77MAR449

2.E.3 PITUITARY HORMONES, INTERMEDIATE

2.E.4 PITUITARY HORMONE RELEASING FACTORS

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, *Facog Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

2.E.5 HYPOPHYSECTOMY

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Biull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Milalhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

[DIABETIC RETINOPATHY; FACTS AND SPECULATIONS] Fankhauser F *Schweiz Med Wochenschr* 106: 1029-34, 31 Jul 76 (Ger) DL/77MAR340

[CORRELATIONS BETWEEN CLINICAL FINDINGS AND THERAPEUTIC MEASURES AND THE COURSE OF DIABETIC RETINOPATHY] Teuscher A *Schweiz Med Wochenschr* 106: 1041-3, 31 Jul 76 (Ger) DL/77MAR342

2.E.6 PITUITARY DISORDERS

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL.)] Luyckx A *Diabete Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

CHLORPROPAMIDE-INDUCED HYPONATREMIA. Piters K *J Clin Endocrinol Metab* 43: 1085-7, Nov 76 (Eng) DL/77MAR170

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

2.G OTHER ENDOCRINES AND RELATED TERMS

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

2.F GONADS

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jong HH, van Rijn van Alkemade JW, Wuite TP *In: Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals.* Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [26] *DL/77MAR509

2.F.1 OVARY

2.F.2 TESTIS

2.F.3 SEX HORMONES

2.F.3.1 ANDROGENS

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finn VP, Aleshina LV *Bull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

THE EFFECTS OF LONG-TERM ALTERNATE-DAY STEROIDS ON PARAMETERS OF ADRENAL FUNCTION IN RENAL TRANSPLANT PATIENTS. Keogh B, Chu TM, Murphy GP *J Urol* 115: 487-9, May 76 (Eng) *DL/77MAR516

2.F.3.2 ESTROGENS

ESTROGENS AND ATHEROSCLEROSIS. Ryan KR *Clin Obstet Gynecol* 19: 805-15, Dec 76 (Eng) DL/77MAR43

REGULATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN UTERINE TISSUE IN ORGAN CULTURE. Keran EE, Barker KL *Endocrinology* 99: 1386-97, Nov 76 (Eng) DL/77MAR60

RESPONSES OF MAMMARY CELLS TO HORMONES. Banerjee MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

PREDICTION OF FETAL OUTCOME BY URINARY ESTRADIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHA-FETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

CORRELATION BETWEEN MORNING URINE ESTRADIOL CONCENTRATION AND 24-HOUR ESTRADIOL EXCRETION. Biezenski JJ, Facog, Millner SN *Obstet Gynecol* 48: 678-81, Dec 76 (Eng) DL/77MAR297

2.F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES

2.F.3.3.1 CORPUS LUTEUM HORMONES

2.F.3.3.2 PROGESTATIONAL HORMONES

RESPONSES OF MAMMARY CELLS TO HORMONES. Banerjee MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

2.F.3.4 CONTRACEPTIVES, ORAL

[DRUG-INDUCED ICTERUS] Morl M *Fortschr Med* 94: 1934-6, 18 Nov 76 (Ger) DL/77MAR144

[RESULTS OF LONG TERM USE OF A LOW DOSE ESTROPROGESTATIF IN DIABETICS AND HIGH RISK WOMEN] Perlemuter L, Hazard J, Jouin-Caurier D, Clipet M *Nouv Presse Med* 5: 2853-6, 11 Dec 76 (Fre) DL/77MAR312

[SIDE EFFECTS AND COMPLICATIONS OF USE OF HORMONAL CONTRACEPTIVES (LITERATURE SURVEY)] Pytel IuA, Zolotarev II, Tsomyk VG, Datuashvili TD *Vopr Okhr Materin Det* 21: 79-81, Aug 76 (Rus) DL/77MAR380

2.F.4 GONADAL DISORDERS

2.G OTHER ENDOCRINES AND RELATED TERMS

2.G.1 ENDOCRINE GLANDS

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

[SIDE EFFECTS AND COMPLICATIONS OF USE OF HORMONAL CONTRACEPTIVES (LITERATURE SURVEY)] Pytel IuA, Zolotarev II, Tsomyk VG, Datuashvili TD *Vopr Okhr Materin Det* 21: 79-81, Aug 76 (Rus) DL/77MAR380

2.G.2 HORMONES

HIGH-SENSITIVITY CYTOFLUOROMETRIC QUANTITATION OF LECTIN AND HORMONE BINDING TO SURFACES OF LIVING CELLS. Bohn B *Exp Cell Res* 103: 39-46, Nov 76 (Eng) DL/77MAR69

MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M *Diabetes* 25: 1018-25, Nov 76 (Eng) DL/77MAR115

RESPONSES OF MAMMARY CELLS TO HORMONES. Banerjee MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

THE ROLE OF THE KIDNEY IN THE METABOLISM OF PLASMA PROTEINS. PP. 392-405. Strober W, Waldmann TA *In: Giovanetti S, et al., ed. Sixth international congress of nephrology.* Basel, Karger, 1976. W3 IN446 1975a. (Eng) [27] DL/77MAR191

PERSPECTIVES IN PSYCHONEUROENDOCRINOLOGY. Smythies JR *Psychoneuroendocrinology* 1: 317-9, 1976 (Eng) DL/77MAR330

CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lammintausta R, Syvalahti E, Pekkarinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

2.G.2.1 GASTROINTESTINAL HORMONES

THE ROLE OF INSULIN IN THE GLUCOSTATIC CONTROL OF FOOD INTAKE. Rezek M *Can J Physiol Pharmacol* 54: Oct 76 (Eng) [97] DL/77MAR22

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, Odorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

[CLINICAL SIGNIFICANCE OF THE TESTS USED IN THE DIAGNOSIS OF PANCREATIC DISEASES] Lenti G, Emanuelli G *Minerva Med* 67: 3661-70, 14 Nov 76 (Ita) DL/77MAR289

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dornier M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

[MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY] Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL.)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

2.G.2.2 PROSTAGLANDINS

2.G.2.3 HORMONES, ECTOPIC

2.G.2.4 PLACENTAL HORMONES

LOCALIZATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) BY IMMUNOHISTOCHEMICAL METHOD IN NORMAL AND PATHOLOGICAL HUMAN PLACENTA. PP. 373-8. Genbacev O, Sulovic V *In: Feldman C, et al., ed. Immunoenzymatic techniques.* Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR188

DIETARY AND MEDICAL TREATMENTS OF OBESITY: AN EVALUATIVE REVIEW. Chouvarakis C *Addict Behav* 1: 3-21, Jul 75 (Eng) DL/77MAR437

2.G.2.5 RELAXIN

2.G.2.6 JUVENILE HORMONES

2.F GONADS

2.G.3 CHROMAFFIN SYSTEM

2.G.4 PINEAL BODY

2.G.5 PITUITARY-ADRENAL SYSTEM

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

2.G.6 SECRETORY RATE

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A, Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76 (Eng) DL/77MAR75

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Beasman SP *J Physiol (Paris)* 72: 721-8, Nov 76 (Eng) DL/77MAR204

POTASSIUM IONS AND INSULIN RELEASE. Henquin JC, Lambert AE *J Physiol (Paris)* 72: 747-56, Nov 76 (Eng) DL/77MAR206

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

STRESS-INDUCED INHIBITION OF TRIGLYCERIDE SECRETION IN VIVO SAND RATS (PSAMMOMYS OBESUS). Robertson RP, Smith PH *Metabolism* 25: 1583-90, Dec 76 (Eng) DL/77MAR254

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dörner M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

ABD
ACUT
Car
107
ABSC
INFL
BO
IN
121
ABSC
[LIPID
VA
RES
PM
29-
ACAI
INSUL
NIC
TIM
M.
Med
ACET
INFL
ME
QU
E.
Nov
ACET
[BEH
LIP
REI
ADI
ACI
GRO
EXF
IN F
S
DL/
ACID
CHIR
TRE
SIS.
MAL
STR
Feb
ACID
[CONS
ACI
(AU
Lap
Meta
CURRI
DIAI
S A
DL/
[LACT
R. L
Unio
DL/7

Diabetes Literature—Keyword Index

ABDOMEN

ACUTE DIABETIC ABDOMEN [LETTER]. Campbell IW, Duncan LJ, Munro JF *Br Med J* 2: 1074, 30 Oct 76 (Eng) DL/77MAR18

ABSORPTION

INFLUENCE OF SOMATOSTATIN ON CARBOHYDRATE DISPOSAL AND ABSORPTION IN DIABETES MELLITUS. Wahren J *Lancet* 2: 1213-6, 4 Dec 76 (Eng) DL/77MAR244

ABSORPTION, GLUCOSE

[LIPID AND GLUCOSE ABSORPTION AFTER VAGOTOMY WITH CONSERVATIVE RESECTION OF THE STOMACH] Postolov PM, Fetisov VA, Missiura NV *Vestn Khir* 114: 29-31, Jan 75 (Rus) *DL/77MAR533

ACANTHOSIS NIGRICANS

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

ACETATE

INFLUENCE OF ACETATE ON GLUCOSE METABOLISM IN THE PERFUSED HIND-QUARTER OF THE RAT. Karlsson N, Fellenius E, Kiessling KH *Acta Physiol Scand* 98: 347-55, Nov 76 (Eng) DL/77MAR434

ACETYL COENZYME A

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

ACID BASE

CHIRAL RECOGNITION OF PROCHIRAL CENTRES AND GENERAL ACID-BASE CATALYSIS. NECESSARILY INTERRELATED MANIFESTATIONS OF ACTIVE-SITE STRUCTURE. Sudi J *Biochem J* 153: 491-3, 1 Feb 76 (Eng) *DL/77MAR556

ACIDOSIS

[CONSUMPTION COAGULOPATHY AND ACIDOSIS IN THE DIABETIC PATIENT (AUTHORS TRANSL)] Larcen A, Lambert H, Laprevote-Heully MC, Alexandre P *Diabete Metab* 2: 33-40, Mar 76 (Fre) DL/77MAR112

CURRENT TRENDS IN THE MANAGEMENT OF DIABETIC KETO-ACIDOTIC COMA. Vinik AI *S Afr Med J* 50: 1693-4, Oct 76 (Eng) DL/77MAR349

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, Damico P, Pesant P, Matte R *Union Med Can* 105: 1810-4, Dec 76 (Fre) DL/77MAR364

LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochem Med* 14: 355-67, Dec 75 (Eng) *DL/77MAR557

ACROMEGALY

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

ACTH

SEE ADRENOCORTICOTROPIC HORMONE

ADENINE

[ROLE OF ADENINE MONO- AND DINUCLEOTIDES IN AMMONIA FORMATION IN BRAIN TISSUE] Buniatian GK *Vopr Biokhim Mozg* 10: 5-32, 1975 (Rus) [163] DL/77MAR369

ADENOCARCINOMA

[DIABETES, OBESITY AND ADENOCARCINOMA OF CORPUS UTERI] Bumma C, Calciati A, Cacciari P, La Grotta G, Falda M *Minerva Med* 67: 3261-6, 20 Oct 76 (Ita) DL/77MAR281

ADENOMA

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER)] Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

ADENOMATOSIS

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

ADENOSINE-3,5-CYCLICMONOPHOSPHATE

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

EFFECT OF HIGH LEVEL SECTION OF THE SPINAL CORD ON THE CYCLIC AMP SYSTEM IN RAT LIVER. Vaptzarova K, Hanoune J *Biochim Biophys Acta* 444: 712-8, 22 Oct 76 (Eng) DL/77MAR7

[THE EFFECTS OF CALCITONIN, GLUCAGON AND THE DIBUTYRYL DERIVATIVE OF CYCLIC AMP ON PLASMA-RENIN ACTIVITY (AUTHORS TRANSL)] Werning C, Stiel D *Dtsch Med Wochenschr* 101: 1690-2, 12 Nov 76 (Ger) DL/77MAR49

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3:5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

CYCLIC AMP CONTROL BY PROSTAGLANDIN E1 IN NON-PARENCHYMAL LIVER CELLS. Ferretti E, Biondi C, Tomasi V *FEBS Lett* 69: 70-4, 15 Oct 76 (Eng) DL/77MAR74

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

[DETERMINATION OF SERUM AND URINARY CYCLIC AMP AND GMP] Kimura H *Jpn J Clin Med* 34 suppl: 2369-70, 1976 (Jpn) [80] DL/77MAR230

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

SOMATOSTATIN INHIBITION OF GLUCAGON-STIMULATED ADENOSINE 3,5-MONOPHOSPHATE ACCUMULATION IN ISOLATED HEPATOCYTES. Oliver JR, Long K, Wagle SR, Allen DO *Proc Soc Exp Biol Med* 153: 367-9, Nov 76 (Eng) DL/77MAR327

EFFECTS OF SUBACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacew S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

[ADENOSINE CYCLIC 3,5 MONOPHOSPHATE IN CHILDREN WITH DIABETES MELLITUS] Kniazev IuA, Golovanova VB, Vakhrusheva LL, Arsenova EN, Ermolenko RI *Vopr Okhr Materin Det* 21: 11-3, Aug 76 (Rus) DL/77MAR375

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

ADENOSINE MONOPHOSPHATE

[CONTROL OF THE REGENERATION OF SMALL PIECES OF THE PLANARIAN DUGESIA TIGRINA BY CYLIC AMP AND GMP

Diabetes Literature—Keyword Index

ADENOSINE TRIPHOSPHATASE

NUCLEOTIDES] Lenique PM *C R Acad Sci [D]* (Paris) 283: 1317-9, 8 NOV 76 (Fre) DL/77MAR35

ADENOSINE TRIPHOSPHATASE

PROPERTIES OF TOAD SKIN NA-K-ATPASE WITH SPECIAL REFERENCE TO EFFECT OF TEMPERATURE. Park YS, Hong SK *Am J Physiol* 231: 1356-63, Nov 76 (Eng) DL/77MAR449

ADENOSINE TRIPHOSPHATE

INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HERMORRHAGIC SHOCK. Chaudry IH, Sayeed MM, Baue AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

ADENYL CYCLASE

ULTRASTRUCTURAL LOCALIZATION OF ADENYL CYCLASE ACTIVITY IN THE PANCREAS OF TWO AMPHIBIAN SPECIES (SALAMANDRA SALAMANDRA L. AND RANA ESCULENTA L.). Trandaburu T *Histochemistry* 48: 1-6, 30 Jul 76 (Eng) DL/77MAR165

ADENYLATE CYCLASE

THE ACTIVATION OF ADENYLATE CYCLASE BY CHOLERA TOXIN: POSSIBLE INTERACTION WITH THE NUCLEOTIDE REGULATORY SITE. Flores J, Sharp GW *Ciba Found Symp* 42: 89-108, 1976 (Eng) [35] DL/77MAR47

ADIPOCYTE

INTERACTING ACTIONS OF INSULIN AND UNESTERIFIED FATTY ACIDS ON LIPOGENIC ENZYMES IN RAT ADIPOCYTES. Sooranna SR, Saggerson ED *FEBS Lett* 69: 144-8, 15 Oct 76 (Eng) DL/77MAR72

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND DIABETES (AUTHORS TRANSL)] Jaillard J, Sezille G, Fruchart JC, Dewailly P, Romon M *Diabete Metab* 2: 5-9, Mar 76 (Fre) DL/77MAR113

EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION. Olefsky JM *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195

ADIPOSE TISSUE

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

ADIPOSE TISSUE, BROWN

EFFECTS OF LIPOLYTIC AND ANTI-LIPOLYTIC DRUGS ON METABOLISM OF

ADENOSINE 3:5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

ADIPOSE TISSUE, EPIDIDYMAL

[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhaye M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

ADOLESCENT

[MAIN INDICATORS OF CARBOHYDRATE METABOLISM IN OBESE CHILDREN AND ADOLESCENTS] Dudenko NV, Zhamkochian LF, Belopashentseva SB *Vopr Okhr Materin Det* 21: 14-7, Aug 76 (Rus) DL/77MAR376

EFFECT OF EXERCISE ON GLUCOSE UPTAKE IN DIABETIC ADOLESCENTS. Dorchy H, Ego F, Baran D, Loeb H *Acta Paediatr Belg* 29: 83-5, Apr-Jun 76 (Eng) DL/77MAR427

[SPORTS IN DIABETIC CHILDREN AND ADOLESCENTS IN THE GERMAN DEMOCRATIC REPUBLIC] Ludtke E, Hauenreiter H, Schukowski H *Aerztz Jugendkd* 67: 273-9, Oct 76 (Ger) DL/77MAR438

ADRENAL

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Milahe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

ADRENAL FUNCTION

ADRENAL FUNCTION IN THE DIABETIC MURKIN MOUSE (GENE SYMBOL DBM). Naeser P *Acta Physiol Scand* 98: 395-9, Dec 76 (Eng) DL/77MAR435

THE EFFECTS OF LONG-TERM ALTERNATE-DAY STEROIDS ON PARAMETERS OF ADRENAL FUNCTION IN RENAL TRANSPLANT PATIENTS. Keogh B, Chu TM, Murphy GP *J Urol* 115: 487-9, May 76 (Eng) *DL/77MAR516

LETTER: HYPOTHALAMIC/PITUITARY/ADRENAL FUNCTION IN PATIENTS ON CHEMOTHERAPY. Anonymous *Lancet* 1: 1238-9, 5 Jun 76 (Eng) *DL/77MAR520

ADRENAL SYSTEM, SYMPATHETIC

[STUDY OF THE EFFECT OF ULTRASOUND ON THE SYMPATHETIC-ADRENAL SYSTEM IN WORKERS] Gerasimova Elu *Gig Sanit* 23-9, Aug 76 (Rus) DL/77MAR139

ADRENALINE

EFFECT OF ADRENALINE ON SUGAR TRANSPORT IN THE PERFUSED LEFT ATRIUM. Bihler I, Sawh PC *Can J Physiol Pharmacol* 54: 714-8, Oct 76 (Eng) DL/77MAR25

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENervation TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Trietley GJ, Bernadis LL *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

ADRENOCORTICAL

ADRENOCORTICAL-RELATED MATURATIONAL EVENTS IN THE FETUS. Liggins GC *Am J Obstet Gynecol* 126: 931-41, 1 Dec 76 (Eng) [68] DL/77MAR445

ADRENOCORTICOTROPIC HORMONE

ISOLATED ACTH DEFICIENCY AND PREGNANCY. Satterfield RG, Williamson HO, Facog *Obstet Gynecol* 48: 693-6, Dec 76 (Eng) DL/77MAR298

ADULT DIABETES

[PERSONALITY AND SOCIAL BEHAVIOR OF ADULT DIABETICS] Lohmann R, Meuter F, Petrides P, Gruncklee D *Med Welt* 27: 1997, 2002, 15 Oct 76 (Ger) DL/77MAR250

ADULT ONSET DIABETES

A STUDY OF THE EFFECTS OF HYPOGLYCEMIA AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VI. SUPPLEMENTARY REPORT ON NONFATAL EVENTS IN PATIENTS TREATED WITH TOLBUTAMIDE. Anonymous *Diabetes* 25: 1129-53, Dec 76 (Eng) DL/77MAR129

AGE

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirozue J, Carthy E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77MAR89

[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhaye M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

[THE EFFECT OF AGE ON THE IN VITRO RESPONSE TO INSULIN IN THE RAT. I. GLUCOSE METABOLISM ON THE DIAPHRAGM (AUTHORS TRANSL)] Gommers A, Dehez-Delhaye M, Jeanjean M *Gerontology* 23: 134-41, 1977 (Fre) DL/77MAR138

SEIZURES AFTER THE AGE OF SIXTY. Carney LR *Practitioner* 217: 74-81, Jul 76 (Eng) DL/77MAR320

WHAT MIDDLE-AGED MEN KNOW OF THEIR PARENTS CAUSE OF DEATH AND AGE AT DEATH. A COMPARISON BETWEEN HISTORY AND DEATH CERTIFICATE. Waern U, Hedstrand H, Aberg H *Scand J Soc Med* 4: 123-9, 1976 (Eng) DL/77MAR336

AGED

[THE PROBLEM OF INCREASING MORBIDITY RATE AMONG MEMBERS OF HOMES FOR THE AGED] Kalista V *Cesk Zdrav* 24: 386-9, Sep 76 (Cze) DL/77MAR34

AGENESIS

SACRAL AGENESIS. ANALYSIS OF 22 CASES. White RI, Klauber GT *Urology* 8: 521-5, Dec 76 (Eng) DL/77MAR365

ALANINE

[(A1-BETA-ALANINE) INSULIN] Geiger R, Geisen K, Regitz G, Summ HD *Hoppe Seylers Z Physiol Chem* 357: 1267-70, Sep 76 (Ger) DL/77MAR149

ABILITY OF EXOGENOUS ALANINE TO LOWER BLOOD BETA-HYDROXYBUTYRATE DURING DEVELOPMENT IN RATS.

Diabetes Literature—Keyword Index

Ozand PT, Tildon JT, Stevenson JH, Reed WD, Cornblath M *Am J Physiol* 230: 1385-8, May 76 (Eng) *DL/77MAR551

ALCOHOL

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

ALDOSTERONE

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

ALKYLATING AGENT

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Sehlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

ALLANTOIS

[APPEARANCE OF GLUCAGON-PRODUCING CELLS IN THE ENDODERM OF THE ALLANTOIS ASSOCIATED WITH INTESTINAL AND PANCREATIC MESENCHYME] Yasugi S *C R Acad Sci [D] (Paris)* 283: 383-5, 13 Sep 76 (Fre) DL/77MAR38

ALLOGRAFT, PANCREATIC

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Collste H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

PASSIVE ENHANCEMENT OF ISOLATED PANCREATIC ISLET ALLOGRAFTS. Finch DRA, Morris PJ *Transplantation* 22: 508-12, Nov 76 (Eng) DL/77MAR362

ALLOSTERIC

UV DIFFERENCE SPECTROSCOPIC STUDIES OF THE INTERACTION OF ALLOSTERIC LIGANDS AND NEUROSPORA PYRUVATE KINASE. O'Brien MD, Kapoor M *FEBS Lett* 58: 366-9, 15 Oct 75 (Eng) *DL/77MAR502

ALLOXAN

EFFECT OF ALLOXAN ON ISLET TISSUE PERMEABILITY: PROTECTION AND REVERSAL BY DITHIOLS. Watkins D, Cooperstein SJ *J Pharmacol Exp Ther* 199: 575-82, Dec 76 (Eng) DL/77MAR201

ALLOXAN DIABETES

NEUROCHEMICAL CORRELATES OF ALLOXAN DIABETES: PROTEIN AND RIBONUCLEIC ACID LEVELS IN THE DIFFERENT REGIONS OF THE RAT BRAIN. Jayashree C, Nayeemunnisa *Experientia* 32: 1412-3, 15 Nov 76 (Eng) DL/77MAR71

POLYARTERITIS NODOSA INDUCED IN ARTERIOSCLEROTIC, MALE AND FEMALE BREEDER RATS BY CHRONIC ALLOXAN DIABETES. Wexler BC *Paroi Arterielle* 2: 221-39, May 75 (Eng) DL/77MAR302

EFFECTS OF ALLOXAN INDUCED DIABETES ON THE FEEDING PATTERNS OF RATS.

Thomas DW, Scharrer E, Mayer J *Physiol Behav* 17: 345-9, Aug 76 (Eng) DL/77MAR329

ALPHA ADRENERGIC

ALPHA ADRENERGIC CONTROL OF GROWTH HORMONE IN ADULT MALE RATS. Ruch W, Jatton AL, Bucher B, Marbach P, Doepfner W *Experientia* 32: 529-31, 15 Apr 76 (Eng) *DL/77MAR501

ALPHA CELL

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

ALTITUDE

[CHANGES IN BLOOD CONSTITUENTS IN RATS AT 1,800 M ALTITUDE AND EFFECT ON PERIODONTIUM] Bessede M, Worbe JF *C R Soc Biol (Paris)* 169: 1224-6, 1975 (Fre) *DL/77MAR491

ALTITUDE STRESS

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

AMENORRHEA

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

AMINE

THE EFFECTS OF D,L-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE. PP. 165-71. Walker CA, Charlton CG *In: Singh JM, Lal H, ed. Drug addiction. Vol 40 New aspects of analytical and clinical toxicology. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) *DL/77MAR511*

AMINE PRECURSOR UPTAKE DECARBOXYLATION

PANCREATIC APUD CELLS IN OLDER CHICK EMBRYOS, WITH SPECIAL REFERENCE TO THEIR IDENTITY. Andrew A *Histochemistry* 49: 213-9, 29 Oct 76 (Eng) DL/77MAR166

AMINO ACID

REGULATION BY GLUCOSE AND CYCLIC NUCLEOTIDES OF THE GLUCAGON AND INSULIN RELEASE INDUCED BY AMINO ACIDS. Jarrouse C, Rosselin G *Diabete Metab* 1: 135-42, Sep 75 (Eng) DL/77MAR95

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

AMINO ACID, BRAIN

CORRELATION OF BLOOD AND BRAIN AMINO ACIDS IN HYPOGLYCEMIC AND

AMPHOTERICIN B

NORMOGLYCEMIC RATS. Wapnir RA *Experientia* 32: 1409-11, 15 Nov 76 (Eng) DL/77MAR70

AMINO ACID, PLASMA

PLASMA AMINO ACIDS IN PATIENTS WITH THE CARCINOID SYNDROME. Feldman JM, Plonk JW, Admiraal J, Sidbury, JB *Cancer* 38: 2127-31, Nov 76 (Eng) DL/77MAR28

AMINO ACID TRANSPORT

REGULATORY CHARACTERISTICS OF AMINO ACID TRANSPORT IN NEWBORN RAT RENAL CORTEX CELLS. Reynolds RA, Segal S *Biochim Biophys Acta* 426: 513-25, 19 Mar 76 (Eng) *DL/77MAR486

AMMONIA

[ROLE OF ADENINE MONO- AND DINUCLEOTIDES IN AMMONIA FORMATION IN BRAIN TISSUE] Bunatian GK *Vopr Biokhim Moza* 10: 5-32, 1975 (Rus) [163] DL/77MAR369

AMNIOTIC FLUID

THE VALUE OF AMNIOTIC FLUID LECITHIN/SPHINGOMYELIN DETERMINATION IN PREDICTION OF HYALINE MEMBRANE DISEASE. Lofstrand T, Fex G *Acta Obstet Gynecol Scand* 55: 419-27, 1976 (Eng) DL/77MAR425

INDIVIDUAL FREE FATTY ACIDS IN AMNIOTIC FLUID AND IN PLASMA OF PREGNANT WOMEN. Hagenfeldt L, Hagenfeldt K *Br J Obstet Gynaecol* 83: 383-6, May 76 (Eng) *DL/77MAR481

AMP

SEE ADENOSINE-3,5-CYCLOC-MONOPHOSPHATE

AMPHETAMINE

THE EFFECTS OF D,L-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE. PP. 165-71. Walker CA, Charlton CG *In: Singh JM, Lal H, ed. Drug addiction. Vol 40 New aspects of analytical and clinical toxicology. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) *DL/77MAR511*

AMPHETAMINE INTOXICATION

EVIDENCE AGAINST H& AND K& AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *In: Betz E, ed. Ionic actions on vascular smooth muscle. Berlin, Springer, 1976. W3 SY732 1976i. (Eng) DL/77MAR187*

AMPHIBIAN

ULTRASTRUCTURAL LOCALIZATION OF ADENYL CYCLASE ACTIVITY IN THE PANCREAS OF TWO AMPHIBIAN SPECIES (SALAMANDRA SALAMANDRA L. AND RANA ESCULENTA L.). Trandaburu T *Histochemistry* 48: 1-6, 30 Jul 76 (Eng) DL/77MAR165

AMPHOTERICIN B

[ACUTE FACIAL MUCORMYCOSIS IN A DIABETIC SUBJECT. SUCCESSFUL TREAT-

Diabetes Literature—Keyword Index

AMYLOIDFIBRIL

MENT WITH AMPHOTERICIN B] Olivier R, Legrand R, Lefebvre P *Diabete Metab* 1: 221-5, Dec 75 (Fre) DL/77MAR104

AMYLOIDFIBRIL

IN VITRO SYNTHESIS OF AMYLOIDFIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E *Isr J Med Sci* 12: 1137-40, Oct 76 (Eng) DL/77MAR1

AMYOTROPHIC LATERAL SCLEROSIS

ABNORMAL CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA ON GUAM. Koerner DR *Diabetes* 25: 1055-65, Nov 76 (Eng) DL/77MAR120

[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

ANATOMICAL STRICTURE

[DECOMPRESSION OF INDIVIDUAL NERVES IN ANATOMICAL STRICTURES IN POLYNEUROPATHIES] Skorpil V *Handchirurgie* 8: 127-8, 1976 (Ger) DL/77MAR140

ANIMAL MODEL

VIRUS INDUCED INSULITIS IN EXPERIMENTAL ANIMAL MODELS. Craighead JE *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 123-8, 1976 (Eng) DL/77MAR404

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

ANIMAL MODEL OF HUMAN DISEASE: DIABETES MELLITUS. Wolf S *Am J Pathol* 85: 805-8, Dec 76 (Eng) DL/77MAR448

[HYPERTRIGLYCERIDEMIA IN RATS FOLLOWING GLUCOSE INFUSION—AN ANIMAL EXPERIMENT MODEL FOR THE STUDY OF TYPE IV HYPERLIPIDEMIA PATHOGENESIS] Heuck CC *Verh Dtsch Ges Inn Med* 81: 1446-9, 1975 (Ger) *DL/77MAR538

ANORECTIC

THE EFFECT OF AN ANORECTIC AGENT (MAZINDOL) ON CONTROL OF OBSE DIABETICS. Sanders M, Breidahl H *Med J Aust* 2: 576-7, 9 Oct 76 (Eng) DL/77MAR261

[DRUG INFORMATION FOR NURSES. OBESITY: THERAPEUTIC MAIN GROUP: ANORECTICS, APPETITE DEPRESSANTS. 3. COMPLICATIONS OF OBESITY] Lumbholtz IB *Sygeplejersken* 76: 11, 13 Oct 76 (Dan) DL/77MAR355

ANOXIA

EFFECTS OF ANOXIA AND GLUCOSE DEPLETION ON ISOLATED VEINS OF THE DOG. Vanhoutte PM *Am J Physiol* 230: 1261-8, May 76 (Eng) *DI/77MAR550

ANTI-INSULIN ANTIBODY

CLINICAL SIGNIFICANCE OF ANTI-INSULIN ANTIBODIES. Andersen OO *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 231-40, 1976 (Eng) DL/77MAR413

ANTI-INSULIN COMPLEX

INSULIN-ANTI-INSULIN COMPLEXES. Folling I *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 199-209, 1976 (Eng) DL/77MAR411

ANTI-INSULIN SERUM

EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS. Berdanier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440

ANTIBODY

CHARACTERIZATION OF ANTIBODIES TO THE INSULIN RECEPTOR: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. Flier JS, Kahn CR, Jarrett DB, Roth J *J Clin Invest* 58: 1442-9, Dec 76 (Eng) DL/77MAR180

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

ANTIBODY, INSULIN

[RELATIONSHIP BETWEEN THE COURSE OF DIABETES MELLITUS IN CHILDREN AND INDICES OF COMPLEMENT AND INSULIN ANTIBODY TITERS] Dreval AV, Zhukovskii MA, Shcherbacheva LN, Mikhailova VS *Vopr Okhr Materin Det* 21: 12-7, Feb 76 (Rus) DL/77MAR370

HIGH AND LOW AFFINITY INSULIN ANTIBODIES. Kerp L, Kasemir H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 211-22, 1976 (Eng) DL/77MAR412

ANTIBODY, PANCREATIC ISLET

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

ANTIDIABETIC, ORAL

ORAL ANTIDIABETICS: PHILOSOPHY AND POLITICS. Bowen AJ *J Med Assoc Ga* 65: 411-4, Nov 76 (Eng) DL/77MAR196

ANTIGEN

LEUCOCYTE-MIGRATION INHIBITION INDUCED BY UVEORETINAL ANTIGEN IN PATIENTS WITH DIABETIC RETINOPATHY. Aviner Z, Henley WL, Okas S, Leopold IH *Diabetes* 25: 1106-9, Dec 76 (Eng) DL/77MAR125

ANTIGEN, HEPATITIS

[HEPATITIS-B(S-HBS) ANTIGEN AND ANTI-HBS IN DIABETIC PATIENTS] Thamer G, Hasslacher C, Wahl P, Kommerell B *Dtsch Med Wochenschr* 101: 1692-3, 12 Nov 76 (Ger) DL/77MAR50

ANTIGENICITY

[PURITY AND ANTIGENICITY OF THE NEW INSULIN PREPARATIONS] Fankhauser S *Schweiz Med Wochenschr* 106: 1218-25, 4 Sep 76 (Ger) DL/77MAR347

ANTILIPOLYTIC

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3:5-MONOPHOSPHATE IN

BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

AORTA

GROWTH OF RABBIT AORTIC SMOOTH MUSCLE CELLS IN SERUM FROM PATIENTS WITH JUVENILE DIABETES. Ledet T *Acta Pathol Microbiol Scand [A]* 84: 508-16, Nov 76 (Eng) DL/77MAR430

LIPID ACCUMULATION IN HUMAN AORTIC SMOOTH MUSCLE CELL LYSOSOMES. Coltoff-Schiller B, Goldfischer S, Wolinsky H, Factor SM *Am J Pathol* 83: 39-44, Apr 76 (Eng) *DL/77MAR549

APPETITE DEPRESSANT

[DRUG INFORMATION FOR NURSES. OBESITY: THERAPEUTIC MAIN GROUP: ANORECTICS, APPETITE DEPRESSANTS. 3. COMPLICATIONS OF OBESITY] Lumbholtz IB *Sygeplejersken* 76: 11, 13 Oct 76 (Dan) DL/77MAR355

APUD

SEE AMINE PRECURSOR UPTAKE DECARBOXYLATION

ARGININE

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Wilms B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

ARGININE TOLERANCE TEST

ABNORMAL GLUCOSE TOLERANCE AND ARGININE TOLERANCE TESTS IN HUNTINGTONS DISEASE. Podolsky S, Leopold NA *Gerontology* 23: 55-63, 1977 (Eng) DL/77MAR136

ARGON LASER

COMPLICATIONS OF ARGON LASER RETINAL PHOTOCOAGULATION: A FIVE-YEAR STUDY. Little HL *Int Ophthalmol Clin* 16: 145-59, Winter 76 (Eng) DL/77MAR158

ARGON LASER PHOTOCOAGULATION OF PROLIFERATIVE DIABETIC RETINOPATHY. Little HL *Int Ophthalmol Clin* 16: 79-103, Winter 76 (Eng) DL/77MAR161

[PRELIMINARY EXPERIENCES IN THE TREATMENT OF RETINAL DISEASES WITH ARGON LASER] Pecoldowa K, Kaluzny J *Klin Oczna* 46: 1305-11, Nov 76 (Pol) DL/77MAR234

TECHNIQUES OF ARGON LASER PHOTOCOAGULATION OF DIABETIC DISK NEW VESSELS. Little HL, Zweng HC, Jack RL, Vassiliadis A *Am J Ophthalmol* 82: 675-83, Nov 76 (Eng) DL/77MAR447

ARRHYTHMIA, BRADYCARDIA

[RISK FACTORS OF ARTERIOSCLEROSIS IN PATIENTS WITH SEVERE BRADYCARDIA ARRHYTHMIAS] Hasslacher C, Wahl P, Thor-

Diabetes Literature—Keyword Index

9,10-DIMETHYL-1,2-BENZANTHRACENE

AUTOIMMUNE DISEASE

[DIABETES AND AUTOIMMUNE DISEASES (AUTHORS TRANSL.) Bastenica PA *Diabete Metab* 1: 3-6, Mar 75 (Fre) DL/77MAR82

AUTOIMMUNITY

PANCREATIC ISLET-CELL AUTOIMMUNITY [LETTER]. Del Prete GF, Betterle C, Bersani G, Romano M, Tiengo A *Lancet* 2: 1090, 13 Nov 76 (Eng) DL/77MAR239

DIABETES MELLITUS AND AUTOIMMUNITY [EDITORIAL]. Anonymous *Lancet* 2: 1124-5, 20 Nov 76 (Eng) DL/77MAR241

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

ORGAN-SPECIFIC CELL-MEDIATED AUTOIMMUNITY IN DIABETES MELLITUS. Irvine WJ, Mac Cuish AC, Campbell CJ, Duncan LJ *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 65-76, 1976 (Eng) DL/77MAR421

AUTOIMMUNITY, HUMORAL

HUMORAL AUTOIMMUNITY IN DIABETES MELLITUS. Bottazzo GF, Doniach D, Pouplard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 55-64, 1976 (Eng) DL/77MAR420

AUTONOMIC FUNCTION

FIBER CONNECTIONS IN THE HYPOTHALAMUS AND SOME AUTONOMIC FUNCTIONS. Ban T *Pharmacol Biochem Behav* 3: 3-13, 1975 (Eng) *DL/77MAR525

AUTONOMIC NEUROPATHY

THE AUTONOMOUS HEART IN DIABETIC AUTONOMIC NEUROPATHY [EDITORIAL]. Vaisrub S *JAMA* 236: 2784, 13 Dec 76 (Eng) DL/77MAR218

AUTORADIOGRAPHY

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PANCREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

BIARIUM ENEMA

USE OF GLUCAGON AS THE HYPOTONIC AGENT IN BIARIUM ENEMA EXAMINATION. Jerele JJ *J Am Osteopath Assoc* 76: 264-71, Dec 76 (Eng) DL/77MAR186

BEHAVIOUR

[PERSONALITY AND SOCIAL BEHAVIOR OF ADULT DIABETICS] Lohmann R, Meuter F, Petrides P, Gruncklee D *Med Welt* 27: 1997-2002, 15 Oct 76 (Ger) DL/77MAR250

9,10-DIMETHYL-1,2-BENZANTHRACENE

EFFECT OF INSULIN ON GLUCOSE TRANSPORT IN DMBA-INDUCED MAMMARY TUMORS. Harmon JT, Hilf R *Eur J Cancer* 12: 933-4, Nov 76 (Eng) DL/77MAR67

specken R, Nussel E *Z Kardiol* 65: 890-6, Oct 76 (Ger) DL/77MAR393

ARTERIAL MEDIAL CELL

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

ARTERIAL PRESSURE

ARTERIAL PRESSURE IN CLINICALLY APPARENT DIABETICS. Keen H, Track NS, Sowry GS *Diabete Metab* 1: 159-78, Sep 75 (Eng) DL/77MAR98

ARTERIO-CEREBRAL VENOUS

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL.)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

ARTERIOPATHY, DIABETIC

[OUR APPROACH TO THE TREATMENT OF PURE DIABETIC ARTERIOPATHY AND ARTERIOSCLEROTIC ARTERIOPATHY IN DIABETICS] Tomassini N, Marconato R, Bianchi E, Malan E *Minerva Cardioangiol* 24: 253-9, Apr 76 (Ita) DL/77MAR273

ARTERIOSCLEROSIS

[OUR APPROACH TO THE TREATMENT OF PURE DIABETIC ARTERIOPATHY AND ARTERIOSCLEROTIC ARTERIOPATHY IN DIABETICS] Tomassini N, Marconato R, Bianchi E, Malan E *Minerva Cardioangiol* 24: 253-9, Apr 76 (Ita) DL/77MAR273

POLYARTERITIS NODOSA INDUCED IN ARTERIOSCLEROTIC, MALE AND FEMALE BREEDER RATS BY CHRONIC ALLOXAN DIABETES. Wexler BC *Paroi Arterielle* 2: 221-39, May 75 (Eng) DL/77MAR302

[RISK FACTORS OF ARTERIOSCLEROSIS IN PATIENTS WITH SEVERE BRADYCARDIA ARRHYTHMIAS] Hasslacher C, Wahl P, Thorpecken R, Nussel E *Z Kardiol* 65: 890-6, Oct 76 (Ger) DL/77MAR393

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutmer RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526

ARTERIOSCLEROSIS, CEREBRAL

EARLY MANIFESTATIONS AND INVESTIGATION OF CEREBRAL ARTERIOSCLEROSIS. Gilroy J *Practitioner* 217: 66-73, Jul 76 (Eng) [24] DL/77MAR319

ARTERY, PERONEAL

REVASCULARIZATION OF THE PERONEAL ARTERY. Dardik H, Ibrahim IM, Sprayregen S, Dardik I *Surg Gynecol Obstet* 143: 946-8, Dec 76 (Eng) DL/77MAR354

ARTIFICIAL BETA CELL

[ARTIFICIAL PANCREATIC BETA CELLS—THE PRESENT STATUS AND PROSPECT] Shichiri M, Kawamori T, Goriya Y, Shigeta Y

Jpn J Clin Med 34: 2886-93, 10 Sep 76 (Jpn) DL/77MAR224

ASCORBIC ACID

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

L-ASPARAGINASE

[EVALUATION IN CHILDREN OF THE CLINICAL, BIOLOGICAL AND ELECTROENCEPHALOGRAPHIC SIDE EFFECTS OF L-ASPARAGINASE] Olive D, Cartault F, Legras B, Neimann N *Pediatr* 31: 259-78, Apr 76 (Fre) DL/77MAR307

ASSAY

[INFLUENCE OF HEPARIN ON THE RADIOIMMUNOLOGIC ASSAY OF INSULIN] Schaller K, Harmeyer J, Partale V *Dtsch Tierarztl Wochenschr* 83: 436-8, 5 Oct 76 (Ger) DL/77MAR54

[DISADVANTAGES OF ACID PRECIPITATION OF PROTEINS DURING THE ASSAY OF BLOOD GLUCOSE BY THE ENZYMATIC GLUCOSE OXIDASE-PEROXIDASE SYSTEM] Van Hung ML *C R Acad Sci [D] (Paris)* 282: 751-4, 23 Feb 76 (Fre) *DL/77MAR492

ATHEROSCLEROSIS

ESTROGENS AND ATHEROSCLEROSIS. Ryan KR *Clin Obstet Gynecol* 19: 805-15, Dec 76 (Eng) DL/77MAR43

STUDY OF DRUGS AFFECTING CHOLESTEROL-INDUCED ATHEROSCLEROSIS IN RABBITS. Kwak YS, Lee KT, Kim DN *Adv Exp Med Biol* 67: 149-67, 1976 (Eng) *DL/77MAR547

ATP

SEE ADENOSINE TRIPHOSPHATE

ATRIUM

THE PERFUSED ISOLATED LEFT ATRIUM: A PREPARATION FOR STUDIES ON SUGAR TRANSPORT IN THE MYOCARDIUM. Sawh PC, Bihler I *Can J Physiol Pharmacol* 54: 708-13, Oct 76 (Eng) DL/77MAR24

EFFECT OF ADRENALINE ON SUGAR TRANSPORT IN THE PERFUSED LEFT ATRIUM. Bihler I, Sawh PC *Can J Physiol Pharmacol* 54: 714-8, Oct 76 (Eng) DL/77MAR25

ATROPINE

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

AUTOANTIBODY

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

Diabetes Literature—Keyword Index

BETA BLOCKER

BETA BLOCKER

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Linton SP, Scott PH, Kendall MJ *Br Med J* 2: 877-8, 9 Oct 76 (Eng) DL/77MAR16

BETA CELL

ELECTRICAL CHARACTERISTICS OF THE BETA-CELLS IN PANCREATIC ISLETS. Meissner HP *J Physiol (Paris)* 72: 757-67, Nov 76 (Eng) DL/77MAR207

DYNAMIC CHARACTERISTICS OF ELECTRICAL ACTIVITY IN PANCREATIC BETA-CELLS. I - EFFECTS OF CALCIUM AND MAGNESIUM REMOVAL. Atwater I, Beigelman PM *J Physiol (Paris)* 72: 769-86, Nov 76 (Eng) DL/77MAR208

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

[ARTIFICIAL PANCREATIC BETA CELLS—THE PRESENT STATUS AND PROSPECT] Shichiri M, Kawamori T, Goriya Y, Shigeta Y *Jpn J Clin Med* 34: 2886-93, 10 Sep 76 (Jpn) DL/77MAR224

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

BETA HYDROXYBUTYRATE

ABILITY OF EXOGENOUS ALANINE TO LOWER BLOOD BETA-HYDROXYBUTYRATE DURING DEVELOPMENT IN RATS. Ozand PT, Tildon JT, Stevenson JH, Reed WD, Cornblath M *Am J Physiol* 230: 1385-8, May 76 (Eng) *DL/77MAR551

BIGUANIDE

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabetes Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

[ROLE OF BIGUANIDES IN THE TREATMENT OF DIABETES MELLITUS] Wiart F *Lille Med* 21: 570-4, Aug-Sep 76 (Fre) DL/77MAR247

THE BIGUANIDES: ACTION AND CLINICAL INDICATIONS. Jerums G *Aust Fam Physician* 5: 1002, 1005, Aug 76 (Eng) DL/77MAR471

BIGUANIDE THERAPY

[GLUCOSE METABOLISM DURING STEROID AND BIGUANIDE THERAPY USING TRITIATED GLUCOSE] Bottermann P, Schweigart U, Emmler R *Verh Dtsch Ges Inn Med* 81: 1481-4, 1975 (Ger) *DL/77MAR539

BILE

[BILE COMPOSITION IN PATIENTS WITH HIGH RISK OF CHOLELITHIASIS] Ponz De Leon M, Ferendreras R, Carulli N *Minerva Med* 67: 3483-90, 3 Nov 76 (Ita) DL/77MAR284

BINDING

NON-SATURABLE-CO-OPERATIVE BINDING OF TOLBUTAMIDE TO ISOLATED ISLETS OF LANGERHANS [PROCEEDINGS]. Alric R, Lignon F, Loubatieres AL, Manteghetti M,

Puech R *Br J Pharmacol* 58: 450p, Nov 76 (Eng) DL/77MAR12

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D] (Paris)* 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

HIGH-SENSITIVITY CYTOFLUOROMETRIC QUANTITATION OF LECTIN AND HORMONE BINDING TO SURFACES OF LIVING CELLS. Bohn B *Exp Cell Res* 103: 39-46, Nov 76 (Eng) DL/77MAR69

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBESE HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

BINDING, INSULIN

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPHIC CELLS OF THE HUMAN HYPOPHYSIS] Legros F, Massant B, Uytendhoef P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION. Olefsky JM *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195

BINDING OF INSULIN AND NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY TO ISOLATED PERFUSED RAT HEART MUSCLE. EVIDENCE FOR TWO SEPARATE BINDING SITES. Meuli C, Froesch ER *Arch Biochem Biophys* 177: 31-8, Nov 76 (Eng) DL/77MAR465

BINDING SITE

BINDING OF INSULIN AND NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY TO ISOLATED PERFUSED RAT HEART MUSCLE. EVIDENCE FOR TWO SEPARATE BINDING SITES. Meuli C, Froesch ER *Arch Biochem Biophys* 177: 31-8, Nov 76 (Eng) DL/77MAR465

BIOFEEDBACK

EFFECTS OF AN EMG BIOFEEDBACK RELAXATION PROGRAM ON THE CONTROL OF DIABETES: A CASE STUDY. Fowler JE, Budzynski TH, VandenBergh RL *Biofeedback Self Regul* 1: 105-12, Mar 76 (Eng) DL/77MAR8

BIOSYNTHESIS

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipelers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabetes Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerblom HK, Kivirikko KI *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

EFFECT OF INHIBITORS OF STEROL BIOSYNTHESIS ON GROWTH AND SEX-

UALITY OF PYTHIUM AND ZYGORHYNCHUS. Child JJ, Haskins RH *Mycopathologia* 59: 91-3, 24 Sep 76 (Eng) DL/77MAR270

BLADDER

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNERVATION. Andersen JT, Bradley WE *Diabetes* 25: 1100-5, Dec 76 (Eng) DL/77MAR124

BLINDNESS

ENCOURAGEMENT BREEDS INDEPENDENCE IN THE BLIND DIABETIC. Schulz JM, Williams M *Nursing (Jenkintown)* 6: 19-20, Dec 76 (Eng) DL/77MAR292

BLOCKING AGENT

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Willms B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

BLOOD

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

CORRELATION OF BLOOD AND BRAIN AMINO ACIDS IN HYPOGLYCEMIC AND NORMOGLYCEMIC RATS. Wapnir RA *Experimental* 32: 1409-11, 15 Nov 76 (Eng) DL/77MAR70

RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION. Ceremuzynski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315

[LIPID SPECTRUM OF BLOOD IN PREGNANT WOMEN WITH DIABETES MELLITUS] Griaucou JM, Kniazev IuA, Vtorova VG, Sebko TV *Vopr Okhr Materin Det* 21: 75-8, Aug 76 (Rus) DL/77MAR379

[MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY] Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388

[INFLUENCE OF FEATURES OF THE ACT OF DELIVERY IN DIABETIC WOMEN ON THE CONCENTRATION OF GLUCOCORTICOID HORMONES IN THE BLOOD AND URINE OF NEWBORNS] Kalinina LM *Akush Ginek (Mosk)* 5: 44-7, May 76 (Rus) DL/77MAR455

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOOD CELLS. Rousselet A, Guthmann C, Matignon J, Bienvenue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

Diabetes Literature—Keyword Index

[CHANGES IN BLOOD CONSTITUENTS IN RATS AT 1,800 M ALTITUDE AND EFFECT ON PERIODONTIUM] Bessede M, Worbe JF C R Soc Biol (Paris) 169: 1224-6, 1975 (Fre) *DL/77MAR491

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jong HH, van Rijn van Alkemade JW, Wuite TP In: Koeman JH, Strik JJ, ed. *Sublethal effects of toxic chemicals on aquatic animals*. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [26] *DL/77MAR509

[METHOD OF DETERMINING SUGAR IN THE BLOOD] Roberman NB Probl Endokrinol (Mosk) 22: 53-5, 1976 (Rus) *DL/77MAR524

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H Verh Dtsch Ges Inn Med 81: 1411-5, 1975 (Ger) *DL/77MAR537

ABILITY OF EXOGENOUS ALANINE TO LOWER BLOOD BETA-HYDROXYBUTYRATE DURING DEVELOPMENT IN RATS. Ozand PT, Tildon JT, Stevenson JH, Reed WD, Cornblath M Am J Physiol 230: 1385-8, May 76 (Eng) *DL/77MAR551

BLOOD-BRAIN BARRIER

BLOOD-BRAIN BARRIER STUDIES IN THE RAT: AN INDICATOR DILUTION TECHNIQUE WITH TRACER SODIUM AS AN INTERNAL STANDARD FOR ESTIMATION OF EXTRACEREBRAL CONTAMINATION. Hertz MM, Bolwig TG Brain Res 107: 333-43, 7 May 76 (Eng) *DL/77MAR490

BLOOD COAGULATION

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI Vopr Okhr Materin Det 21: 61-5, Apr 76 (Rus) DL/77MAR373

BLOOD FLOW, CEREBRAL

EVIDENCE AGAINST H&A AND K&A AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK In: Beitz E, ed. *Ionic actions on vascular smooth muscle*. Berlin, Springer, 1976. W3 SY732 1976i. (Eng) DL/77MAR187

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W Klin Wochenschr 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B Acta Paediatr Scand 65: 343-53, May 76 (Eng) *DL/77MAR542

BLOOD GLUCOSE

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG Diabetes 25: 1110-7, Dec 76 (Eng) DL/77MAR126

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I--THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS Indian J Exp Biol 14: 145-9, Mar 76 (Eng) DL/77MAR153

[EFFECT OF GLUCAGON ADMINISTRATION ON BLOOD GLUCOSE LEVEL IN TOTALLY PANCREATIZED DOGS (AUTHORS TRANSL)] Nishimura I Arch Jpn Chir 45: 390-7, 1 Sep 76 (Jpn) DL/77MAR467

[DISADVANTAGES OF ACID PRECIPITATION OF PROTEINS DURING THE ASSAY OF BLOOD GLUCOSE BY THE ENZYMATIC GLUCOSE OXIDASE-PEROXIDASE SYSTEM] Van Hung ML C R Acad Sci [D] (Paris) 282: 751-4, 23 Feb 76 (Fre) *DL/77MAR492

CYCLIC NUCLEOTIDES AND CRUSTACEAN BLOOD GLUCOSE LEVELS. Spindler KD, Wilig A, Keller R Comp Biochem Physiol [A] 54: 301-4, 1976 (Eng) *DL/77MAR496

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B Endokrynol Pol 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

THE EFFECTS OF D,L-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE. PP. 165-71. Walker CA, Charlton CG In: Singh JM, Lal H, ed. *Drug addiction. Vol 40 New aspects of analytical and clinical toxicology*. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) *DL/77MAR511

LETTER: ACCURACY OF BLOOD GLUCOSE MEASUREMENTS USING A REFLECTANCE METER. Anonymous Med J Aust 1: 414-5, 20 Mar 76 (Eng) *DL/77MAR521

BLOOD SUGAR

BLOOD SUGAR AND BETA-BLOCKERS [LETTER] Linton SP, Scott PH, Kendall MJ Br Med J 2: 877-8, 9 Oct 76 (Eng) DL/77MAR16

DIABETIC RETINOPATHY AND BLOOD-SUGAR [LETTER] Katsilambros N Lancet 2: 1253, 4 Dec 76 (Eng) DL/77MAR245

BLOOD VESSEL

[HISTOTOPOCHEMICAL INVESTIGATIONS ON ELASTIC MEMBRANES OF BLOOD VESSELS WITH SPECIAL REGARD OF DIABETES MELLITUS. IV. HEAVY METALS (AUTHORS TRANSL)] Opitz M, Von Dorsche HH Acta Histochem (Jena) 56: 211-4, 1976 (Ger) DL/77MAR423

BODY TEMPERATURE

EFFECT OF PROPRANOLOL ON THYROID-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS. Uscilko HK, Brzezinska Z, Greenleaf JE Acta Physiol Pol 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543

CALCITONIN

BRADYCARDIA

MAGNESIUM-INDUCED BRADYCARDIA [LETTER] Berns AS, Kollmeyer KR Ann Intern Med 85: 760-1, Dec 76 (Eng) DL/77MAR460

BRADYCARDIA ARRHYTHMIAS

[RISK FACTORS OF ARTERIOSCLEROSIS IN PATIENTS WITH SEVERE BRADYCARDIA ARRHYTHMIAS] Hasslacher C, Wahl P, Thor-specken R, Nussel E Z Kardiol 65: 890-6, Oct 76 (Ger) DL/77MAR393

BRAIN

NEUROCHEMICAL CORRELATES OF ALLOXAN DIABETES: PROTEIN AND RIBONUCLEIC ACID LEVELS IN THE DIFFERENT REGIONS OF THE RAT BRAIN. Jayashree C, Nayceemunnisa Experientia 32: 1412-3, 15 Nov 76 (Eng) DL/77MAR71

METABOLISM OF KETONE BODIES BY OVINE BRAIN IN VIVO. Kammula RG Am J Physiol 231: 1490-4, Nov 76 (Eng) DL/77MAR451

BLOOD-BRAIN BARRIER STUDIES IN THE RAT: AN INDICATOR DILUTION TECHNIQUE WITH TRACER SODIUM AS AN INTERNAL STANDARD FOR ESTIMATION OF EXTRACEREBRAL CONTAMINATION. Hertz MM, Bolwig TG Brain Res 107: 333-43, 7 May 76 (Eng) *DL/77MAR490

THE EFFECTS OF D,L-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE. PP. 165-71. Walker CA, Charlton CG In: Singh JM, Lal H, ed. *Drug addiction. Vol 40 New aspects of analytical and clinical toxicology*. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) *DL/77MAR511

CEREBRAL UPTAKE OF GLUCOSE AND OXYGEN IN THE CAT BRAIN AFTER PROLONGED ISCHEMIA. Hossmann KA, Sakaki S, Kimoto K Stroke 7: 301-5, May-Jun 76 (Eng) *DL/77MAR531

BRAIN AMINO ACID

CORRELATION OF BLOOD AND BRAIN AMINO ACIDS IN HYPOGLYCEMIC AND NORMOGLYCEMIC RATS. Wapnir RA Experientia 32: 1409-11, 15 Nov 76 (Eng) DL/77MAR70

BRAIN TISSUE

[ROLE OF ADENINE MONO- AND DINUCLEOTIDES IN AMMONIA FORMATION IN BRAIN TISSUE] Buniation GK Vopr Biokhim Mosk 10: 5-32, 1975 (Rus) [163] DL/77MAR369

BREEDER

POLYARTERITIS NODOSA INDUCED IN ARTERIOSCLEROTIC, MALE AND FEMALE BREEDER RATS BY CHRONIC ALLOXAN DIABETES. Wexler BC Paroi Arterielle 2: 221-39, May 75 (Eng) DL/77MAR302

C-PEPTIDE

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H Endocrinol Jpn 23: 271-3, Jun 76 (Eng) DL/77MAR64

CALCITONIN

IN VITRO SYNTHESIS OF AMYLOIDFIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E Isr J Med Sci 12: 1137-40, Oct 76 (Eng) DL/77MAR1

Diabetes Literature—Keyword Index

CALCIUM

[THE EFFECTS OF CALCITONIN, GLUCAGON AND THE DIBUTYRYL DERIVATIVE OF CYCLIC AMP ON PLASMA-RENIN ACTIVITY. (AUTHORS TRANSL.) Werning C, Stiel D *Dtsch Med Wochenschr* 101: 1690-2, 12 Nov 76 (Ger) DL/77MAR49

CALCIUM

INTERACTION OF CALCIUM AND GLUCOSE ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

DYNAMIC CHARACTERISTICS OF ELECTRICAL ACTIVITY IN PANCREATIC BETA-CELLS. I. - EFFECTS OF CALCIUM AND MAGNESIUM REMOVAL. Atwater I, Beigelman PM *J Physiol (Lond)* 272: 769-86, Nov 76 (Eng) DL/77MAR208

ACTION OF INSULIN AND CELL CALCIUM: EFFECT OF IONOPHORE A23187. Grinstein S, Erlj D *J Membr Biol* 29: 313-28, 29 Nov 76 (Eng) DL/77MAR214

[BEHAVIOR OF CALCIUM, INORGANIC PHOSPHORUS, MAGNESIUM AND GLUCOSE CONCENTRATIONS IN THE PLASMA OF EWES IN THE PERINATAL PERIOD] Brenner K, Seidel H *Arch Exp Veterinaarmed* 29: 939-45, Dec 75 (Ger) *DL/77MAR553

CALCIUM ANTAGONIST

CALCIUM ANTAGONISTS AND ISLET FUNCTION. VIII. THE EFFECT OF MAGNESIUM. Malaisse WJ, Devis G, Herchuelz A, Sener A, Somers G *Diabetes Metab* 2: 1-4, Mar 76 (Eng) DL/77MAR107

CALORIC

ENDOGENOUS CALORIC SOURCES AND NITROGEN BALANCE: REGULATION IN POSTOPERATIVE PATIENTS. Gazzaniga AB, Day AT, Barlett RH, Wilson AF *Arch Surg* 111: 1357-61, Dec 76 (Eng) DL/77MAR468

GLUCOSE PREFERENCE AND CALORIC REGULATION IN WEANLING RATS WITH VENTROMEDIAL AND DORSOMEDIAL HYPOTHALAMIC LESIONS. Bernardis LL, Border JR *J Neurosci Res* 1: 485-93, 1975 (Eng) *DL/77MAR515

CARBOHYDRATE

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabetes Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOGLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Ostad S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

CARBOHYDRATE DISPOSAL

INFLUENCE OF SOMATOSTATIN ON CARBOHYDRATE DISPOSAL AND ABSORPTION IN DIABETES MELLITUS. Wahren J *Lancet* 2: 1213-6, 4 Dec 76 (Eng) DL/77MAR244

CARBOHYDRATE METABOLISM

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

ANTI-HYPERTENSIVE ACTION, TIME OF ONSET AND EFFECTS ON CARBOHYDRATE METABOLISM OF LABETALOL. Andersson O, Berglund G, Hansson L *Br J Clin Pharmacol* 3: 757-61, Aug 76 (Eng) DL/77MAR4

[CHANGES IN CARBOHYDRATE METABOLISM AND EFFICIENCY OF HYPOGLYCEMIC DRUGS RELATED TO THE LIGHT DARK CYCLE IN RATS. A STUDY ON STIMULATED DIAPHRAGM (AUTHORS TRANSL)] Sterne J, Pecard F *Diabetes Metab* 2: 21-5, Mar 76 (Fre) DL/77MAR110

ABNORMAL CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA ON GUAM. Koerner DR *Diabetes* 25: 1055-65, Nov 76 (Eng) DL/77MAR120

[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

[CARBOHYDRATE METABOLISM IN CHILDREN BORN TO WOMEN WITH DIABETES MELLITUS] Vitorova VG, Savchenko TN, Loseva IV, Vishnevskii FE *Vopr Okhr Materin Det* 21: 9-12, Feb 76 (Rus) DL/77MAR372

[MAIN INDICATORS OF CARBOHYDRATE METABOLISM IN OBESE CHILDREN AND ADOLESCENTS] Dudenko NV, Zhamkochian LF, Belopashentseva SB *Vopr Okhr Materin Det* 21: 14-7, Aug 76 (Rus) DL/77MAR376

[INFLUENCE OF CHROMIUM AS A TRACE ELEMENT ON THE HORMONAL REGULATION IN THE RAT. 2. PHYSIOLOGICAL FUNCTION OF CHROMIUM IN CARBOHYDRATE METABOLISM] Djahanchiri H, Brune H *Z Tierphysiol* 36: 201-13, Aug 75 (Ger) *DL/77MAR540

CARBOHYDRATE TOLERANCE

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

CARBOXYKINASE, PHOSPHOENOLPYRUVATE

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochem Med* 14: 355-67, Dec 75 (Eng) *DL/77MAR557

CARCINOGENESIS

[MUTATIONAL-METABOLIC MODEL OF CARCINOGENESIS AND THE PROGRESSION OF THE NEOPLASTIC PROCESS] Dilman VM *Vopr Onkol* 22: 3-16, 1976 (Rus) DL/77MAR381

CARCINOID SYNDROME

PLASMA AMINO ACIDS IN PATIENTS WITH THE CARCINOID SYNDROME. Feldman JM, Plonk JW, Admiraal J, Sidbury, JB *Cancer* 38: 2127-31, Nov 76 (Eng) DL/77MAR28

CARCINOMA, ISLET CELL

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

CARDIAC

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

CARDIAC MUSCLE

REGULATION OF GLYCOLYSIS AND PYRUVATE OXIDATION IN CARDIAC MUSCLE. Randle PJ *Circ Res* 38: i8-15, May 76 (Eng) *DL/77MAR493

CARDIOCIRCULATION

URBAN TRAFFIC NOISE, CARDIOCIRCULATORY ACTIVITY AND CORONARY RISK FACTORS. di Cantogno L, Dallerba R, Teagno PS, Cocola L *Acta Otolaryngol [Suppl] (Stockh)* 0: 55-63, 1976 (Eng) DL/77MAR426

CARE

DIABETIC FOOT CARE. PROBLEMS AND PRACTICAL SUGGESTIONS. Chandler PT *Postgrad Med* 60: 59-63, Dec 76 (Eng) [22] DL/77MAR317

CATABOLISM

THE STRUCTURE OF HAEM IN PYRIDINE/WATER MIXTURES AND ITS IMPLICATION IN STUDIES OF HAEM CATABOLISM. Brown SB, King RF *Biochem J* 153: 479-83, 1 Feb 76 (Eng) *DL/77MAR555

CATALYSIS

CHIRAL RECOGNITION OF PROCHIRAL CENTRES AND GENERAL ACID-BASE CATALYSIS. NECESSARILY INTERRELATED MANIFESTATIONS OF ACTIVE-SITE STRUCTURE. Sudi J *Biochem J* 153: 491-3, 1 Feb 76 (Eng) *DL/77MAR556

CATARACT

FAMILIAL CONGENITAL MONOCHROMATISM, CATARACTS, AND SENSORINEURAL DEAFNESS. Jan JE, Tze WJ, Johnston AC, Dunn HG *Am J Dis Child* 130: 1349-50, Dec 76 (Eng) DL/77MAR444

CATECHOLAMINE

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabetes Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

[URINARY EXCRETION OF CATECHOLAMINES IN OBESE SUBJECTS

CELL, PARENCHYMAL

CELL-FREE TRANSLATION SYSTEM

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE *FEBS Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

CELL, ISLET

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orcl L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

PANCREATIC ISLET-CELL AUTOIMMUNITY [LETTER]. Del Prete GF, Betterle C, Bersani G, Romano M, Tiengo A *Lancet* 2: 1090, 13 Nov 76 (Eng) DL/77MAR239

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

REGENERATION OF ISLET CELLS. Hellerstrom C, Andersson A, Gunnarsson R *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 145-60, 1976 (Eng) [73] DL/77MAR406

CELL, LIVER

CYCLIC AMP CONTROL BY PROSTAGLANDIN E₁ IN NON-PARENCHYMAL LIVER CELLS. Ferretti E, Biondi C, Tomasi V *FEBS Lett* 69: 70-4, 15 Oct 76 (Eng) DL/77MAR74

CELL, LIVING

HIGH-SENSITIVITY CYTOFLUOROMETRIC QUANTIFICATION OF LECTIN AND HORMONE BINDING TO SURFACES OF LIVING CELLS. Bohn B *Exp Cell Res* 103: 39-46, Nov 76 (Eng) DL/77MAR69

CELL, LYMPHOID

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finník VP, Aleshina LV *Bull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

CELL, MAMMARY

RESPONSES OF MAMMARY CELLS TO HORMONES. Banerjee MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

CELL MEMBRANE

STUDIES ON THE FUNCTION OF PANCREATIC ISLET CELL MEMBRANES. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *J Physiol (Paris)* 72: 729-46, Nov 76 (Eng) DL/77MAR205

CELL, PARENCHYMAL

INFLUENCE OF INSULIN ON LYSOSOMAL ACTIVITY AND UREA PRODUCTION IN ISOLATED PARENCHYMAL CELLS FROM RAT LIVER. Grammelvedt R, Berg T, Hoppe Seylers Z *Physiol Chem* 357: 977-81, Jul 76 (Eng) DL/77MAR147

CELL, 3T6

STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

CELL, BETA

ELECTRICAL CHARACTERISTICS OF THE BETA-CELLS IN PANCREATIC ISLETS. Meissner HP *J Physiol (Paris)* 72: 757-67, Nov 76 (Eng) DL/77MAR207

DYNAMIC CHARACTERISTICS OF ELECTRICAL ACTIVITY IN PANCREATIC BETA-CELLS. I. - EFFECTS OF CALCIUM AND MAGNESIUM REMOVAL. Atwater I, Beigelman PM *J Physiol (Paris)* 72: 769-86, Nov 76 (Eng) DL/77MAR208

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPERTHYPOGLYCEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

[ARTIFICIAL PANCREATIC BETA CELLS--THE PRESENT STATUS AND PROSPECT] Shichiri M, Kawamori T, Goriya Y, Shigeta Y *Jpn J Clin Med* 34: 2886-93, 10 Sep 76 (Jpn) DL/77MAR224

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

CELL DIVISION

STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

CELL, ENDOCRINE

INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS. Helmstaedt V, Feurle GE, Forstmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

CELL, FAT

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBESE HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

EFFECT OF ANTECEDENT HORMONE ADMINISTRATION ON LIPOLYSIS IN THE PERFUSED ISOLATED FAT CELL. Solomon SS, Duckworth WC *J Lab Clin Med* 88: 984-94, Dec 76 (Eng) DL/77MAR193

CELL FREE SYSTEM

PROTEIN SYNTHESIS IN CELL-FREE SYSTEMS FROM TOTALLY ISCHEMIC RAT MYOCARDIUM. Hinterberger U, Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 7: 341-7, 1975 (Eng) *DL/77MAR529

AND IN DIABETICS (AUTHORS TRANSL.) Giordano R, Nardelli GM, Scardapane R *Diabetes Metab* 2: 11-3, Mar 76 (Fr) DL/77MAR108

CATFISH (CLARIAS BATRACHUS L)

HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

CAUDATE NUCLEUS

STIMULATION OF GLYCOGENOLYSIS IN RAT CAUDATE NUCLEUS SLICES BY L-ISOPROPYLNOREPINEPHRINE, DIBUTYRYL CYCLIC AMP AND 2-CHLOROADENOSINE. Wilkening D, Makman MH *J Neurochem* 26: 923-8, May 76 (Eng) *DL/77MAR513

CELL

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finník VP, Aleshina LV *Bull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

[APPEARANCE OF GLUCAGON-PRODUCING CELLS IN THE ENDOCRINE OF THE ALLANTOIS ASSOCIATED WITH TESTICULAR AND PANCREATIC MESENCHYME] Yasugi S *C R Acad Sci [D] (Paris)* 283: 383-5, 13 Sep 76 (Fr) DL/77MAR38

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

PANCREATIC APUD CELLS IN OLDER CHICK EMBRYOS, WITH SPECIAL REFERENCE TO THEIR IDENTITY. Andrew A *Histochemistry* 49: 213-9, 29 Oct 76 (Eng) DL/77MAR166

ACTION OF INSULIN AND CELL CALCIUM: EFFECT OF IONOPHORE A23187. Grinstein S, Ertli D *J Membr Biol* 29: 313-28, 29 Nov 76 (Eng) DL/77MAR214

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *Pfluegers Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

ORGAN-SPECIFIC CELL-MEDIATED AUTOIMMUNITY IN DIABETES MELLITUS. Irvine WJ, Mac Cuish AC, Campbell CJ, Duncan LJ *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 65-76, 1976 (Eng) DL/77MAR421

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOOD CELLS. Roussellet A, Guthmann C, Matricon J, Bienvenue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

REGULATORY CHARACTERISTICS OF AMINO ACID TRANSPORT IN NEWBORN RAT RENAL CORTEX CELLS. Reynolds RA, Segal S *Biochim Biophys Acta* 426: 513-25, 19 Mar 76 (Eng) *DL/77MAR486

CELL, SMOOTH MUSCLE

CELL, SMOOTH MUSCLE

LIPID ACCUMULATION IN HUMAN AORTIC SMOOTH MUSCLE CELL LYSOSOMES. Coltoff-Schiller B, Goldfischer S, Wolinsky H, Factor SM *Am J Pathol* 83: 39-44, Apr 76 (Eng) *DL/77MAR549

CELL, SOMATOTROPHIC

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPHIC CELLS OF THE HUMAN HYPOPHYSIS] Legros F, Massant B, Uytendhoef P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

CELL SURFACE

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

CELLULOSE

PRODUCTION OF POLYMETHYL-GALACTURONASE AND CELLULOSE AND ITS RELATIONSHIP WITH VIRULENCE IN ISOLATES OF SCLEROTINIA SCLEROTIUM (LIB.) DE BARY. Rai JN, Dhawan S *Indian J Exp Biol* 14: 196-7, Mar 76 (Eng) DL/77MAR154

CEREBRAL ARTERIOSCLEROSIS

EARLY MANIFESTATIONS AND INVESTIGATION OF CEREBRAL ARTERIOSCLEROSIS. Gilroy J *Practitioner* 217: 66-73, Jul 76 (Eng) [24] DL/77MAR319

CEREBRAL BLOOD FLOW

EVIDENCE AGAINST H&A AND K&A AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *Ino Betz E, ed. Ionic actions on vascular smooth muscle.* Berlin, Springer, 1976. W3 SY732 1976L (Eng) DL/77MAR187

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

CEREBRAL CORTEX

GLUCOSE CONSUMPTION IN RAT CEREBRAL CORTEX IN NORMOXIA, HYPOXIA AND HYPERCAPNIA. Borgstrom L, Norberg K, Siesjö BK *Acta Physiol Scand* 96: 569-74, Apr 76 (Eng) *DL/77MAR546

CEREBRAL DWARF

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH

CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

CEREBRAL GLUCOSE

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

CEREBRUM

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

CEREBRAL UPTAKE OF GLUCOSE AND OXYGEN IN THE CAT BRAIN AFTER PROLONGED ISCHEMIA. Hossmann KA, Sakaki S, Kimoto K *Stroke* 7: 301-5, May-Jun 76 (Eng) *DL/77MAR531

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

CHEMOTHERAPY

LETTER: HYPOTHALAMIC/PITUITARY/ADRENAL FUNCTION IN PATIENTS ON CHEMOTHERAPY. Anonymous *Lancet* 1: 1238-9, 5 Jun 76 (Eng) *DL/77MAR520

CHICK EMBRYO

PANCREATIC APUD CELLS IN OLDER CHICK EMBRYOS, WITH SPECIAL REFERENCE TO THEIR IDENTITY. Andrew A *Histochemistry* 49: 213-9, 29 Oct 76 (Eng) DL/77MAR166

CHILD

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL)] Ruitton A, Frederich F *Diabete Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabete Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC

HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *Ino Feldman C, et al, ed. Immunoenzymatic techniques.* Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGGT IN CHILDREN] Baratonio S, Cerutti F, Miglio C, Altare F *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

[EVALUATION IN CHILDREN OF THE CLINICAL, BIOLOGICAL AND ELECTROENCEPHALOGRAPHIC SIDE EFFECTS OF L-ASPARAGINASE] Olive D, Cartault F, Legras B, Neimann N *Pediatr* 31: 259-78, Apr 76 (Fre) DL/77MAR307

[RELATIONSHIP BETWEEN THE COURSE OF DIABETES MELLITUS IN CHILDREN AND INDICES OF COMPLEMENT AND INSULIN ANTIBODY TITERS] Dreval AV, Zhukovskii MA, Shcherbacheva LN, Mikhailova VS *Vopr Okhr Materin Det* 21: 12-7, Feb 76 (Rus) DL/77MAR370

[STATE OF LIPID METABOLISM AND THE ORGAN OF VISION IN CHILDREN WITH DIABETES MELLITUS] Ostashevskaja MI, Petrashevskaja MM, Shcherbina RV *Vopr Okhr Materin Det* 21: 17-20, Feb 76 (Rus) DL/77MAR371

[CARBOHYDRATE METABOLISM IN CHILDREN BORN TO WOMEN WITH DIABETES MELLITUS] Vitorova VG, Savchenko TN, Loseva IV, Vishnevskii FE *Vopr Okhr Materin Det* 21: 9-12, Feb 76 (Rus) DL/77MAR372

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI *Vopr Okhr Materin Det* 21: 61-5, Apr 76 (Rus) DL/77MAR373

[ADENOSINE CYCLIC 3,5 MONOPHOSPHATE IN CHILDREN WITH DIABETES MELLITUS] Kniazev IaA, Golovanova VB, Vakhrusheva LL, Arsenova EN, Ermolenko RI *Vopr Okhr Materin Det* 21: 11-3, Aug 76 (Rus) DL/77MAR375

[SYNDROME OF PHYSICAL AND GENITAL INFANTILISM IN CHILDREN WITH SEVERE FORMS OF DIABETES MELLITUS] Martynova MI, Lapchenko LN, Luzianina GA *Vopr Okhr Materin Det* 21: 3-7, Aug 76 (Rus) DL/77MAR377

[GENEALOGICAL CHARACTERISTICS OF CHILDREN FROM DIABETIC FAMILIES] Stulii LA *Vopr Okhr Materin Det* 21: 7-11, Aug 76 (Rus) DL/77MAR378

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

CHILD, DIABETIC

[SPORTS IN DIABETIC CHILDREN AND ADOLESCENTS IN THE GERMAN DEMOCRATIC REPUBLIC] Ludtke E, Habenreiser H, Schukowski H *Aerztz Jugendkd* 67: 273-9, Oct 76 (Ger) DL/77MAR438

[PLASMA LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *An Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

Diabetes Literature—Keyword Index

CHILDHOOD

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baratonio S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

CHILDHOOD ANTECEDENTS OF ADULT OBESITY. DO CHUBBY INFANTS BECOME OBESE ADULTS Charnay E, Goodman HC, McBride M, Lyon B, Pratt R *N Engl J Med* 295: 6-9, 1 Jul 76 (Eng) *DL/77MAR522

2-CHLOROADENOSINE

STIMULATION OF GLYCOGENOLYSIS IN RAT CAUDATE NUCLEUS SLICES BY L-ISOPROPYLNOREPINEPHRINE, DIBUTYRYL CYCLIC AMP AND 2-CHLOROADENOSINE. Wilkening D, Makman MH *J Neurochem* 26: 923-8, May 76 (Eng) *DL/77MAR513

CHLORPROPAMIDE-INDUCED

CHLORPROPAMIDE-INDUCED HYPONATREMIA. PETERS K *J Clin Endocrinol Metab* 43: 1085-7, Nov 76 (Eng) DL/77MAR170

CHOLELITHIASIS

[BILE COMPOSITION IN PATIENTS WITH HIGH RISK OF CHOLELITHIASIS] Ponz De Leon M, Ferenderes R, Carulli N *Minerva Med* 67: 3483-90, 3 Nov 76 (Ita) DL/77MAR284

CHOLERA TOXIN

THE ACTIVATION OF ADENYLATE CYCLASE BY CHOLERA TOXIN: POSSIBLE INTERACTION WITH THE NUCLEOTIDE REGULATORY SITE. Flores J, Sharp GW *Ciba Found Symp* 42: 89-108, 1976 (Eng) [35] DL/77MAR47

CHOLESTEROGENESIS

NONISOTOPIC METHOD FOR ESTIMATING CHOLESTEROGENESIS IN THE RAT. Phillips WA, Ratchford JM, Schulta JR *Adv Exp Med Biol* 67: 251-265, 1976 (Eng) *DL/77MAR548

CHOLESTEROL

STUDY OF DRUGS AFFECTING CHOLESTEROL-INDUCED ATHEROSCLEROSIS IN RABBITS. Kwak YS, Lee KT, Kim DN *Adv Exp Med Biol* 67: 149-67, 1976 (Eng) *DL/77MAR547

CHOLESTEROL, PLASMA

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Sinzinger H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R *Wien Med Wochenschr* 125: 611-4, 17 Oct 75 (Ger) *DL/77MAR536

CHORIONIC GONADOTROPIN

LOCALIZATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) BY IMMUNOHISTOCHEMICAL METHOD IN NORMAL AND PATHOLOGICAL HUMAN PLACENTA. PP. 373-8. Genbacev O, Sulovic V *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR188*

CHROMATOGRAPHY, GAS

GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS

OF METHYLATION OF SULFONYLUREA DRUGS. Midha KK, Awang DV, McGilveray IJ *Biomed Mass Spectrom* 3: 100-9, Jun 76 (Eng) DL/77MAR9

CHROMIUM

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jong HH, van Rijn van Alkemade JW, Wuite TP *Ino Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [26] *DL/77MAR509*

[INFLUENCE OF CHROMIUM AS A TRACE ELEMENT ON THE HORMONAL REGULATION IN THE RAT. 2. PHYSIOLOGICAL FUNCTION OF CHROMIUM IN CARBOHYDRATE METABOLISM] Djahanshiri H, Brune H *Z Tierphysiol* 36: 201-13, Aug 75 (Ger) *DL/77MAR540

CIRCULAR DICHROISM

SEPARATION OF THE TWO DOUBLE-CHAIN BOVINE INTERMEDIATES OF THE PROINSULIN-INSULIN CONVERSION I. CHEMICAL, IMMUNOCHEMICAL, CIRCULAR DICHROISM, AND BIOLOGICAL CHARACTERIZATION. Markussen J, Heding LG *Int J Pept Protein Res* 8: 597-606, 1976 (Eng) DL/77MAR156

CIRCULATION

[MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY] Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388

CIRCULATION, HEPATIC

EFFECT OF GLUCAGON ON HEPATIC CIRCULATION IN THE PIG. Lindberg B, Darle N *Arch Surg* 111: 1379-83, Dec 76 (Eng) DL/77MAR469

CIRRHOSIS, HEPATIC

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

CLINICAL

[STUDIES ON CLINICAL PREDICTION OF MYOCARDIAL INFARCTION: QUANTIFICATIONS OF CORONARY RISK FACTORS (AUTHORS TRANSL)] Kato K *Jpn Circ J* 40: 1041-3, 1055-66, Sep 76 (Jpn) DL/77MAR222

DIABETIC NEUROPATHY: CLINICAL ASPECTS. Ellenberg M *Metabolism* 25: 1627-55, Dec 76 (Eng) DL/77MAR255

[CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT] Enzi G, Muggeo M, Tiengo A *Minerva Med* 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285

COLD ACCLIMATION

[CLINICAL SIGNIFICANCE OF THE TESTS USED IN THE DIAGNOSIS OF PANCREATIC DISEASES] Lenti G, Emanuelli G *Minerva Med* 67: 3661-70, 14 Nov 76 (Ita) DL/77MAR289

[EVALUATION IN CHILDREN OF THE CLINICAL, BIOLOGICAL AND ELECTROENCEPHALOGRAPHIC SIDE EFFECTS OF L-ASPARAGINASE] Olive D, Cartault F, Legras B, Neimann N *Pediatr* 31: 259-78, Apr 76 (Fre) DL/77MAR307

[CORRELATIONS BETWEEN CLINICAL FINDINGS AND THERAPEUTIC MEASURES AND THE COURSE OF DIABETIC RETINOPATHY] Teuscher A *Schweiz Med Wochenschr* 106: 1041-5, 31 Jul 76 (Ger) DL/77MAR342

CLINICAL EXAMINATION OF THE URINE. Duncan JR, Prasse KW *Vet Clin North Am* 6: 647-61, Nov 76 (Eng) DL/77MAR367

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI *Vopr Okhr Materin Det* 21: 61-5, Apr 76 (Rus) DL/77MAR373

CLINICAL SIGNIFICANCE OF ANTI-INSULIN ANTIBODIES. Andersen OO *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 231-40, 1976 (Eng) DL/77MAR413

THE BIGUANIDES: ACTION AND CLINICAL INDICATIONS. Jerums G *Aust Fam Physician* 5: 1002, 1005, Aug 76 (Eng) DL/77MAR471

CLOFIBRATE

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND CLOFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL)] Rumpf KW, Quellhroost E, Scheler F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

[THE QUESTION OF ADVERSE EFFECTS OF CLOFIBRATE. EXPERIENCE IN PATIENTS WITH DIABETES MELLITUS] Haser C, Rahlfs V, Mehnert H *Ther Ggw* 115: 1382-95, Aug 76 (Ger) DL/77MAR357

COAGULATION, BLOOD

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI *Vopr Okhr Materin Det* 21: 61-5, Apr 76 (Rus) DL/77MAR373

COAGULOPATHY

[CONSUMPTION COAGULOPATHY AND ACIDOSIS IN THE DIABETIC PATIENT (AUTHORS TRANSL)] Larcen A, Lambert H, Laprevote-Huilly MC, Alexandre P *Diabete Metab* 2: 33-40, Mar 76 (Fre) DL/77MAR112

COLD ACCLIMATION

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3:5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

COLD ACCLIMATION

COLD EXPOSURE

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

COLLAGEN BIOSYNTHESIS

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerblom HK, Kivirikko KI *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

COLLAGEN DISEASE

[COLLAGEN DISEASES WITH MULTIPLE SYSTEMIC MANIFESTATIONS WITHOUT A BASIC SYMPTOM] Anonymous *Praxis* 65: 1167, 21 Sep 76 (Ger) DL/77MAR321

COMA

INSULIN COMA THERAPY: DECREASE OF PLASMA TRYPTOPHAN IN MAN. Baumann P, M. Gaillard J *J Neural Transm* 39: 309-13, 1976 (Eng) DL/77MAR198

CURRENT TRENDS IN THE MANAGEMENT OF DIABETIC KETO-ACIDOTIC COMA. Vinik AI *S Afr Med J* 50: 1693-4, Oct 76 (Eng) DL/77MAR349

COMA, DIABETIC

[TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL)] Luft D, Schubert WR, Reichenmiller HE *Dtsch Med Wochenschr* 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA--REPORT OF 2 CASES AND STUDIES OF 63 CASES IN JAPANESE LITERATURE] Ibayashi H, Funakoshi A, Wakasugi H, Nakayama K, Kimura Y *Jpn J Clin Med* 34: 2788-99, 10 Sep 76 (Jpn) DL/77MAR223

HYPEROSMOLAR NON-KETOTIC DIABETIC COMA IN A JUVENILE. Owusu SK, Anterkyi FS, Shaw-Taylor KE, Konotey-Ahulu FI *Ghana Med J* 14: 241-2, Sep 75 (Eng) DL/77MAR397

COMA, HYPEROSMOLAR

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ *Med J Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

COMATOSE STATE

[HYPEROSMOLAR COMATOSE STATES] Mantz JM, Tempe JD, Jaeger A, Kurtz D *Minerva Med* 67: 3643-60, 14 Nov 76 (Ita) DL/77MAR288

COMMUNITY

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

COMPLEMENT

[RELATIONSHIP BETWEEN THE COURSE OF DIABETES MELLITUS IN CHILDREN AND INDICES OF COMPLEMENT AND INSULIN ANTIBODY TITERS] Dreval AV, Zhukovskii MA, Shcherbacheva LN, Mikhailova VS *Vopr Okhr Materin Det* 21: 12-7, Feb 76 (Rus) DL/77MAR370

COMPUTER ANALYSIS

DIABETIC RETINOPATHY STUDY. ASSESSMENT AND COMPARISON OF RETINAL LESIONS FOR COMPUTER ANALYSIS. Koerner F, Eichenseher N, Koerner U *Albrecht von Graefes Arch Klin Ophthalmol* 201: 47-56, 18 Nov 76 (Eng) DL/77MAR456

CONGENITAL

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

FAMILIAL CONGENITAL MONOCHROMATISM, CATARACTS, AND SENSORINEURAL DEAFNESS. Jan JE, Tze WJ, Johnston AC, Dunn HG *Am J Dis Child* 130: 1349-50, Dec 76 (Eng) DL/77MAR444

CONSTITUENT, BLOOD

[CHANGES IN BLOOD CONSTITUENTS IN RATS AT 1,800 M ALTITUDE AND EFFECT ON PERIODONTIUM] Bessede M, Worbe JF *C R Soc Biol (Paris)* 169: 1224-6, 1975 (Fre) *DL/77MAR491

CONTRACEPTIVE, HORMONAL

[SIDE EFFECTS AND COMPLICATIONS OF USE OF HORMONAL CONTRACEPTIVES (LITERATURE SURVEY)] Pytel IuA, Zolotarev II, Tsomyk VG, Datuashvili TD *Vopr Okhr Materin Det* 21: 79-81, Aug 76 (Rus) DL/77MAR380

CONTRACTILE

[USE OF GLUCAGON IN THE TREATMENT OF SEVERE CONTRACTILE INSUFFICIENCY OF THE MYOCARDIUM] Bertolazzi R, Ricciardi S, Marengo G *Minerva Med* 67: 3519-24, 10 Nov 76 (Ita) DL/77MAR286

CONTROL

EFFECTS OF AN EMG BIOFEEDBACK RELAXATION PROGRAM ON THE CONTROL OF DIABETES: A CASE STUDY. Fowler JE, Budzynski TH, VandenBergh RL *Biofeedback Self Regul* 1: 105-12, Mar 76 (Eng) DL/77MAR8

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabetes Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

THE EFFECT OF AN ANORECTIC AGENT (MAZINDOL) ON CONTROL OF OBESE DIABETICS. Sanders M, Breidahl H *Med J Aust* 2: 576-7, 9 Oct 76 (Eng) DL/77MAR261

[LONG TERM CONTROL OF DIABETES IN GENERAL PRACTICE] Belser FG *Schweiz Med Wochenschr* 106: 1045-8, 31 Jul 76 (Ger) DL/77MAR343

CONTROL, DIETARY

DIETARY CONTROL OF INTRACELLULAR DISTRIBUTION OF RAT LIVER FUMARASE. Nakashima K, Takeda M, Tuboi S *Biochem Biophys Res Commun* 72: 1562-9, 18 Oct 76 (Eng) DL/77MAR474

CONVERSION, PROINSULIN-INSULIN

SEPARATION OF THE TWO DOUBLE-CHAIN BOVINE INTERMEDIATES OF THE PROINSULIN-INSULIN CONVERSION I. CHEMICAL, IMMUNOCHEMICAL, CIRCULAR DICHROISM, AND BIOLOGICAL CHARACTERIZATION. Markussen J, Heding LG *Int J Pept Protein Res* 8: 597-606, 1976 (Eng) DL/77MAR156

CORONAROGRAPHY

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

CORONARY OCCLUSION

EXPERIMENTAL CORONARY OCCLUSION IN CALVES: THE EFFECT OF HYPERGLYCAEMIA ON VENTRICULAR FIBRILLATION THRESHOLD. Egerton WS, Balderson G *Aust NZ J Surg* 46: 92-6, Feb 76 (Eng) *DL/77MAR554

CORONARY RISK FACTOR

[STUDIES ON CLINICAL PREDICTION OF MYOCARDIAL INFARCTION: QUANTIFICATIONS OF CORONARY RISK FACTORS (AUTHORS TRANSL)] Kato K *Jpn Circ J* 40: 1041-3, 1055-66, Sep 76 (Jpn) DL/77MAR222

URBAN TRAFFIC NOISE, CARDIOCIRCULATORY ACTIVITY AND CORONARY RISK FACTORS. di Cantogno L, Dallerba R, Teagno PS, Cocola L *Acta Otolaryngol [Suppl]* (Stockh) 0: 55-63, 1976 (Eng) DL/77MAR426

CORPUS UTERUS

[DIABETES, OBESITY AND ADENOCARCINOMA OF CORPUS UTERI] Bumma C, Calciati A, Cacciari P, La Grotta G, Falda M *Minerva Med* 67: 3261-6, 20 Oct 76 (Ita) DL/77MAR281

CORTEX

REGULATORY CHARACTERISTICS OF AMINO ACID TRANSPORT IN NEWBORN RAT RENAL CORTEX CELLS. Reynolds RA, Segal S *Biochim Biophys Acta* 426: 513-25, 19 Mar 76 (Eng) *DL/77MAR486

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Ichle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

GLUCOSE CONSUMPTION IN RAT CEREBRAL CORTEX IN NORMOXIA, HYPOXIA AND HYPERCAPNIA. Borgstrom L, Norberg K, Siesjö BK *Acta Physiol Scand* 96: 569-74, Apr 76 (Eng) *DL/77MAR546

CORTEX, CEREBRAL

GLUCOSE CONSUMPTION IN RAT CEREBRAL CORTEX IN NORMOXIA, HYPOXIA AND

Diabetes Literature—Keyword Index

DEOXYGLUCOSE METHOD

DEAFNESS

- [DIABETES MELLITUS AND DEAFNESS] Kozlov Mla, Onegova RF, Petrov VS, Sokoloverova IM *Vestn Otorinolaringol* 21-5, Sep-Oct 76 (Rus) DL/77MAR366
- FAMILIAL CONGENITAL MONOCHROMATISM, CATARACTS, AND SENSORINEURAL DEAFNESS. Jan JE, Tze WJ, Johnston AC, Dunn HG *Am J Dis Child* 130: 1349-50, Dec 76 (Eng) DL/77MAR444

DEATH

- CHARACTERISTICS OF HOSPITALIZATIONS AND DEATH CASES OF DIABETIC PATIENTS IN A GENERAL HOSPITAL. Lender M, Menczel J *Gerontology* 23: 23-30, 1977 (Eng) DL/77MAR135
- WHAT MIDDLE-AGED MEN KNOW OF THEIR PARENTS CAUSE OF DEATH AND AGE AT DEATH. A COMPARISON BETWEEN HISTORY AND DEATH CERTIFICATE. Waern U, Hedstrand H, Aberg H *Scand J Soc Med* 4: 123-9, 1976 (Eng) DL/77MAR336

DECOMPRESSION

- [DECOMPRESSION OF INDIVIDUAL NERVES IN ANATOMICAL STRICTURES IN POLYNEUROPATHIES] Skorpil V *Handchirurgie* 8: 127-8, 1976 (Ger) DL/77MAR140

DEGENERATIVE DISEASE

- [STATISTICAL RELATIONSHIPS BETWEEN FOOD SUPPLY AND THE MORTALITY OF SOME CHRONIC DEGENERATIVE DISEASES IN EIGHT INDUSTRIALLY DEVELOPED COUNTRIES] Haenel H, Ulbricht G, Oehmisch W, Erhardt V *Z Gesamte Hyg* 22: 748-58, 1976 (Ger) DL/77MAR390

DEHYDROGENASE, GLUCOSE-6-PHOSPHATE

- REGULATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN UTERINE TISSUE IN ORGAN CULTURE. Keran EE, Barker KL *Endocrinology* 99: 1386-97, Nov 76 (Eng) DL/77MAR60

DENERVATION, LIVER

- FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENERVATION TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Tietley GJ, Bernardis LL *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

2-DEOXY-D-GLUCOSE

- GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dorner M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

DEOXYGLUCOSE METHOD

- THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

CULTURE, TISSUE

- TISSUE CULTURE OF ISOLATED PANCREATIC ISLETS. Andersson A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 283-94, 1976 (Eng) [58] DL/77MAR417

CYCLASE, ADENYL

- ULTRASTRUCTURAL LOCALIZATION OF ADENYL CYCLASE ACTIVITY IN THE PANCREAS OF TWO AMPHIBIAN SPECIES (SALAMANDRA SALAMANDRA L. AND RANA ESCULENTA L.). Trandaburu T *Histochemistry* 48: 1-6, 30 Jul 76 (Eng) DL/77MAR165

CYCLASE, ADENYLATE

- THE ACTIVATION OF ADENYLATE CYCLASE BY CHOLERA TOXIN: POSSIBLE INTERACTION WITH THE NUCLEOTIDE REGULATORY SITE. Flores J, Sharp GW *Ciba Found Symp* 42: 89-108, 1976 (Eng) [35] DL/77MAR47

CYCLIC AMP

- SEE ADENOSINE-3,5-CYCLIC-MONOPHOSPHATE

CYCLIC NUCLEOTIDE

- REGULATION BY GLUCOSE AND CYCLIC NUCLEOTIDES OF THE GLUCAGON AND INSULIN RELEASE INDUCED BY AMINO ACIDS. Jarrousse C, Rosselin G *Diabete Metab* 1: 135-42, Sep 75 (Eng) DL/77MAR95

- CYCLIC NUCLEOTIDES AND CRUSTACEAN BLOOD GLUCOSE LEVELS. Spindler KD, Wilig A, Keller R *Comp Biochem Physiol [A]* 54: 301-4, 1976 (Eng) *DL/77MAR496

CYCLOHEXIMIDE

- SUPPRESSION OF RENIN SECRETION IN THE ISOLATED RAT KIDNEY BY CYCLOHEXIMIDE. Vandongen R *Eur J Pharmacol* 40: 179-81, Nov 76 (Eng) DL/77MAR68

CYTOCHROME C

- PHOTOREDUCTION OF MEMBRANE BOUND CYTOCHROME C BY EXCITED-STATE PHENOTHIAZINE. Vanderkooi JM *Biochem Biophys Res Commun* 69: 1043-9, 19 Apr 76 (Eng) *DL/77MAR559

CYTOFLUOROMETRIC

- HIGH-SENSITIVITY CYTOFLUOROMETRIC QUANTITATION OF LECTIN AND HORMONE BINDING TO SURFACES OF LIVING CELLS. Bohn B *Exp Cell Res* 103: 39-46, Nov 76 (Eng) DL/77MAR69

CYTROPROLIFERATIVE

- NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

DATA PROCESSING

- [SOURCE DOCUMENTS FOR ELECTRONIC DATA PROCESSING IN SELECTED EYE DISEASES] Majewska K, Czechowicz-Janicka K, Janik J, Semenik H, Ruszkowski J, Doroszewski J *Klin Oczna* 46: 999-1003, Sep 76 (Pol) DL/77MAR235

- HYPERCAPNIA. Borgstrom L, Norberg K, Siesjo BK *Acta Physiol Scand* 96: 569-74, Apr 76 (Eng) *DL/77MAR546

CORTICOSTEROID THERAPY

- TUBERCULOSIS AFTER CORTICOSTEROID THERAPY. Sahn SA, Lakshminarayan S *Br J Dis Chest* 70: 195-205, Jul 76 (Eng) DL/77MAR5

CORTISOL

- [EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

COXSACKIE VIRUS INFECTION

- [MYOCARDITIS AND INSULITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hofmann W, Waldherr R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

CREATININE

- [CREATININE DURING PREGNANCY (AUTHORS TRANSL.)] Gitsch E *Wien Klin Wochenschr* 88: 740-2, 26 Nov 76 (Ger) DL/77MAR387

CULTURE

- SERUM-FREE CULTIVATION OF THYMUS ORGAN FRAGMENTS. Lumb JR, George YS *Fed Proc* 35: 2555-8, Dec 76 (Eng) DL/77MAR77

- ISOLATED MAMMALIAN HEPATOCYTES IN CULTURE. Jeejeebhoy K, Phillips MJ *Gastroenterology* 71: 1086-96, Dec 76 (Eng) [121] DL/77MAR132

- LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *In: Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189*

- INSULIN SECRETION BY HUMAN PANCREAS CULTURED FOR ONE YEAR. Hollande E, Giron BJ, Rey F, Dutrillaux MC *J Physiol (Paris)* 72: 815-32, Nov 76 (Eng) DL/77MAR212

CULTURE, ORGAN

- REGULATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN UTERINE TISSUE IN ORGAN CULTURE. Keran EE, Barker KL *Endocrinology* 99: 1386-97, Nov 76 (Eng) DL/77MAR60

CULTURE, RESTING

- STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

DEOXYGLUCOSE METHOD

DEOXYRIBONUCLEIC ACID

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Bull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

DEOXYRIBONUCLEIC ACID SYNTHESIS

STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

DEPANCREATIZED

SEE PANCREATECTOMY

DETECTION

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

DETECTION, EARLY

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNERVATION. Andersen JT, Bradley WE *Diabetes* 25: 1100-5, Dec 76 (Eng) DL/77MAR124

DETERMINATION

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabetes Metab* 1: 87-9, Jun 75 (Fre) DL/77MAR93

[DETERMINATION OF SERUM GLUCOSE AND INTERPRETATION OF GLUCOSE TOLERANCE TEST] Sano T, Abe M *Jpn J Clin Med* 34 suppl: 1874-88, 1976 (Jpn) DL/77MAR225

[DETERMINATION OF SERUM TRIGLYCERIDES] Fukui I, Soyama K, Takano K, Kushi H, Masaki K *Jpn J Clin Med* 34 suppl: 1910-24, 1976 (Jpn) DL/77MAR226

[DETERMINATION OF SERUM MAGNESIUM] Yoshida M, Ohno J *Jpn J Clin Med* 34 suppl: 2024-35, 1976 (Jpn) DL/77MAR227

[DETERMINATION OF SERUM INSULIN (AND CPR)] Nakagawa S *Jpn J Clin Med* 34 suppl: 2281-9, 1976 (Jpn) [127] DL/77MAR228

[DETERMINATION OF SERUM GLUCAGON] Morita S, Baba S *Jpn J Clin Med* 34 suppl: 2290-8, 1976 (Jpn) [68] DL/77MAR229

[DETERMINATION OF SERUM AND URINARY CYCLIC AMP AND GMP] Kimura H *Jpn J Clin Med* 34 suppl: 2369-70, 1976 (Jpn) [80] DL/77MAR230

A PRACTICAL AND THEORETICAL APPRAISAL OF THE SIGNIFICANCE OF P50 AND 2,3-DIPHOSPHOGLYCERATE DETERMINATIONS IN THE ROUTINE CHEMICAL PATHOLOGY DEPARTMENT. Cook DA *Med Lab Sci* 33: 287-97, Oct 76 (Eng) DL/77MAR248

THE VALUE OF AMNIOTIC FLUID LECITHIN/SPHINGOMYELIN DETERMINA-

TION IN PREDICTION OF HYALINE MEMBRANE DISEASE. Lofstrand T, Fex G *Acta Obstet Gynecol Scand* 55: 419-27, 1976 (Eng) DL/77MAR425

DEXTRAN

A SEMIAUTOMATED MICROMETHOD FOR DEXTRAN IN THE PRESENCE OF GLUCOSE. Weet JF, Cobb CA, Lebric SJ *J Lab Clin Med* 87: 898-902, May 76 (Eng) *DL/77MAR512

DEXTROSTIX

LETTER: EFFECT OF SKIN-CLEANING AGENTS ON DEXTROSTIX READINGS. Ball SG, Hughes AS *Br Med J* 1: 1279, 22 May 76 (Eng) *DL/77MAR489

DIABETES

[MANIFESTATION OF DIABETES (AUTHORS TRANSL)] Fischer F *Klin Monatsbl Augenheilkd* 168: 784-7, Jun 76 (Ger) DL/77MAR231

TWO MINUTES WITH DIABETES. Whitehouse FW *Med Times* 104: 97-8, Dec 76 (Eng) DL/77MAR249

DIABETIC CHILD

[PLASMATIC LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *An Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

DIABETIC FAMILY

[GENEALOGICAL CHARACTERISTICS OF CHILDREN FROM DIABETIC FAMILIES] Stulii LA *Vopr Okhr Materin Det* 21: 7-11, Aug 76 (Rus) DL/77MAR378

DIABETIC FOOT

DIABETIC FOOT CARE. PROBLEMS AND PRACTICAL SUGGESTIONS. Chandler PT *Postgrad Med* 60: 59-63, Dec 76 (Eng) [22] DL/77MAR317

DIABETIC PATIENT

[HEPATITIS-B-S (HBS) ANTIGEN AND ANTIBODIES IN DIABETIC PATIENTS] Thamer G, Hasslacher C, Wahl P, Kommerell B *Dtsch Med Wochenschr* 101: 1692-3, 12 Nov 76 (Ger) DL/77MAR50

DIAGNOSIS AND THE DIABETIC PATIENT. Walters F *Dent Stud* 53: 49-52, May 75 (Eng) DL/77MAR78

[CONSUMPTION COAGULOPATHY AND ACIDOSIS IN THE DIABETIC PATIENT (AUTHORS TRANSL)] Larcen A, Lambert H, Laprevote-Heully MC, Alexandre P *Diabetes Metab* 2: 33-40, Mar 76 (Fre) DL/77MAR112

CHARACTERISTICS OF HOSPITALIZATIONS AND DEATH CASES OF DIABETIC PATIENTS IN A GENERAL HOSPITAL. Lender M, Menczel J *Gerontology* 23: 23-30, 1977 (Eng) DL/77MAR135

SPECIAL NEEDS OF THE GERIATRIC DIABETIC PATIENT. Small D *J Pract Nurs* 26: 25-7, 36, Nov 76 (Eng) DL/77MAR213

[HOW DO WE COUNSEL OUR DIABETIC PATIENTS] Berger W, Mully K *Schweiz Med Wochenschr* 106: 1049-53, 31 Jul 76 (Ger) DL/77MAR344

DIABETIC SUBJECT

[ACUTE FACIAL MUCORMYCOSIS IN A DIABETIC SUBJECT. SUCCESSFUL TREATMENT WITH AMPHOTERICIN B] Olivier R, Legrand R, Lefebvre P *Diabetes Metab* 1: 221-5, Dec 75 (Fre) DL/77MAR104

DIABETIC WOMAN

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R *Diabetes* 25: 1118-22, Dec 76 (Eng) DL/77MAR127

[INFLUENCE OF FEATURES OF THE ACT OF DELIVERY IN DIABETIC WOMEN ON THE CONCENTRATION OF GLUCOCORTICOID HORMONES IN THE BLOOD AND URINE OF NEWBORNS] Kalinina LM *Akush Ginekol (Mosk)* 5: 44-7, May 76 (Rus) DL/77MAR455

DIABETOGENIC DRUG

ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLHYDANTOIN. Mackerer CR, Saunders RN, Haettlinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217

DIABETOGENIC EFFECT

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

DIAGNOSIS

DIAGNOSIS AND THE DIABETIC PATIENT. Walters F *Dent Stud* 53: 49-52, May 75 (Eng) DL/77MAR78

CURRENT ASPECTS OF AETIOLOGY AND DIAGNOSIS IN DIABETES MELLITUS. Turtle JR *Med J Aust* 2: 458-60, 18 Sep 76 (Eng) DL/77MAR256

[CLINICAL SIGNIFICANCE OF THE TESTS USED IN THE DIAGNOSIS OF PANCREATIC DISEASES] Lenti G, Emanuelli G *Minerva Med* 67: 3661-70, 14 Nov 76 (Ita) DL/77MAR289

[PRECLINICAL DIAGNOSIS OF DIABETIC NEPHROPATHIES WITH THE AID OF RADIOINDICATION METHODS] Leshchinskii LA, Losaberdze BB, Pimenov LT *Ter Arkh* 48: 73-9, 1976 (Rus) DL/77MAR356

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

[DIAGNOSIS OF CHRONIC PYELONEPHRITIS IN PREGNANT WOMEN WITH DIABETES MELLITUS] Vasileva ZV, Vtorova VG, Rodoman VE *Vopr Okhr Materin Det* 21: 79-81, Apr 76 (Rus) DL/77MAR374

DIALYSIS

TRANSPLANTATION VERSUS DIALYSIS IN HIGH RISK PATIENTS. PP. 702-9. Kjellstrand CM, Mauer SM, Shideman JR, Simmons RL, Buselmeier TJ, Najarian JS *Ino Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a.* (Eng) DL/77MAR192

HEARING LOSS IN PATIENTS WITH DIALYSIS AND RENAL TRANSPLANTS. Quick CA *Ann Otol Rhinol Laryngol* 85: 776-90, Nov-Dec 76 (Eng) DL/77MAR462

Diabetes Literature—Keyword Index

DOPAMINE RECEPTOR

DIAPHRAGM

[CHANGES IN CARBOHYDRATE METABOLISM AND EFFICIENCY OF HYPOGLYCEMIC DRUGS RELATED TO THE LIGHT DARK CYCLE IN RATS. A STUDY ON STIMULATED DIAPHRAGM (AUTHORS TRANSL)] Sterne J, Pecard F *Diabete Metab* 2: 21-5, Mar 76 (Fre) DL/77MAR110

[THE EFFECT OF AGE ON THE IN VITRO RESPONSE TO INSULIN IN THE RAT. I. GLUCOSE METABOLISM ON THE DIAPHRAGM (AUTHORS TRANSL)] Gommers A, Dehez-Delhaye M, Jeanpau M *Gerontology* 23: 134-41, 1977 (Fre) DL/77MAR138

DIAZOXIDE

DIAZOXIDE, GLIPIZIDE, HYPERTENSION AND HYPOGLYCAEMIA [LETTER]. Farr MJ *Lancet* 2: 1138, 20 Nov 76 (Eng) DL/77MAR242

DIBUTYRYL ADENOSINE-3,5-CYCLICMONOPHOSPHATE

STIMULATION OF GLYCOGENOLYSIS IN RAT CAUDATE NUCLEUS SLICES BY L-ISOPROPYLNOREPINEPHRINE, DIBUTYRYL CYCLIC AMP AND 2-CHLOROADENOSINE. Wilkening D, Makman MH *J Neurochem* 26: 923-8, May 76 (Eng) *DL/77MAR513

DIBUTYRYL DERIVATIVE

[THE EFFECTS OF CALCITONIN, GLUCAGON AND THE DIBUTYRYL DERIVATIVE OF CYCLIC AMP ON PLASMA-RENIN ACTIVITY (AUTHORS TRANSL)] Werning C, Stiel D *Dtsch Med Wochenschr* 101: 1690-2, 12 Nov 76 (Ger) DL/77MAR49

DICHOISM, CIRCULAR

SEPARATION OF THE TWO DOUBLE-CHAIN BOVINE INTERMEDIATES OF THE PROINSULIN-INSULIN CONVERSION I. CHEMICAL, IMMUNOCHEMICAL, CIRCULAR DICHOISM, AND BIOLOGICAL CHARACTERIZATION. Markussen J, Heding LG *Int J Pept Protein Res* 8: 597-606, 1976 (Eng) DL/77MAR156

DIET

DIETS FOR DIABETICS: NO ADDED SUCROSE [LETTER]. Trowell H *Br Med J* 12: 1196, 13 Nov 76 (Eng) DL/77MAR19

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

IN DIABETIC DIETS, REALISM GETS RESULTS. Kaufmann SJ *Nursing (Jenkintown)* 6: 75-7, Nov 76 (Eng) DL/77MAR291

TOLERANCE AND ACCEPTABLE DAILY INTAKE OF ETHYLENE DICHLORIDE IN THE CHICKEN DIET. Alumot E, Meidler M, Holstein P *Food Cosmet Toxicol* 14: 111-4, Apr 76 (Eng) *DL/77MAR503

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H *Verh Dtsch Ges Inn Med* 81: 1411-5, 1975 (Ger) *DL/77MAR537

DIET, HIGH FAT

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

DIET THERAPY

[DIET THERAPY OF DIABETES MELLITUS (WITHOUT REFERENCE TO JUVENILE DIABETES)] Sauer H, Nassauer I *Internist (Berlin)* 17: 502-10, Oct 76 (Ger) [48] DL/77MAR163

[LEUCINE-SENSITIVE HYPOGLYCEMIA AND ITS DIET THERAPY] Okoh O, Dallmeier M *Munch Med Wochenschr* 118: 1505-6, 12 Nov 76 (Ger) DL/77MAR266

DIETARY

DIETARY AND MEDICAL TREATMENTS OF OBESITY: AN EVALUATIVE REVIEW. Chlouverakis C *Addict Behav* 1: 3-21, Jul 75 (Eng) DL/77MAR37

DIETARY CONTROL

DIETARY CONTROL OF INTRACELLULAR DISTRIBUTION OF RAT LIVER FUMARASE. Nakashima K, Takeda M, Tuboi S *Biochem Biophys Res Commun* 72: 1562-9, 18 Oct 76 (Eng) DL/77MAR474

DIETING

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gordon P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

DIFFUSION, TRANSVERSE

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOOD CELLS. Rousselet A, Guthmann C, Matricon J, Bienvenue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

DIGESTIVE TRACT

[COMPARISON OF THE SIZE OF HEPATOCYTE NUCLEI IN DIABETES AND IN SELECTED DIGESTIVE TRACT DISEASES] Danilewicz M, Danilewiczowa M, Mielczarek H, Pruszczyński M, Torzecki Z *Pol Tyg Lek* 31: 1961-2, 15 Nov 76 (Pol) DL/77MAR313

DILUTION

EFFECT OF DILUTION ON IMMUNOREACTIVE INSULIN ACTIVITY OF HUMAN PLASMA. Sakaran H, Harrington MG *Ir J Med Sci* 145: 359-68, Nov 76 (Eng) DL/77MAR164

DILUTION TECHNIQUE

BLOOD-BRAIN BARRIER STUDIES IN THE RAT: AN INDICATOR DILUTION

TECHNIQUE WITH TRACER SODIUM AS AN INTERNAL STANDARD FOR ESTIMATION OF EXTRACEREBRAL CONTAMINATION. Hertz MM, Bolwig TG *Brain Res* 107: 333-43, 7 May 76 (Eng) *DL/77MAR490

DIPHENYLHYDANTOIN

ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLHYDANTOIN. Mackerer CR, Saunders RN, Haettinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217

2,3-DIPHOSPHOGLYCERATE

A PRACTICAL AND THEORETICAL APPRAISAL OF THE SIGNIFICANCE OF P50 AND 2,3-DIPHOSPHOGLYCERATE DETERMINATIONS IN THE ROUTINE CHEMICAL PATHOLOGY DEPARTMENT. Cook DA *Med Lab Sci* 33: 287-97, Oct 76 (Eng) DL/77MAR248

DISORDER, METABOLIC

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baraton S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

DISULFIDE

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Sehlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

DITHIOLS

EFFECT OF ALLOXAN ON ISLET TISSUE PERMEABILITY: PROTECTION AND REVERSAL BY DITHIOLS. Watkins D, Cooperstein SJ *J Pharmacol Exp Ther* 199: 575-82, Dec 76 (Eng) DL/77MAR201

DIURNAL RHYTHM

THE EFFECTS OF D,L-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE. PP. 165-71. Walker CA, Charlton CG *In: Singh JM, Lal H, ed. Drug addiction. Vol 40 New aspects of analytical and clinical toxicology. New York, Stratton, 1974. W3 IN917KC 1973d.* (Eng) *DL/77MAR511

DNA

SEE DEOXYRIBONUCLEIC ACID

DOPAMINE-BETA-HYDROXYLASE

DOPAMINE-BETA-HYDROXYLASE ACTIVITY IN SERUM FOLLOWING ACUTE MYOCARDIAL INFARCTION: AN EVALUATION OF THIS PARAMETER FOR ROUTINE USE AS AN INDEX OF SYMPATHETIC ACTIVITY. Gutteberg T, Borud O, Stromme JH *Clin Chim Acta* 69: 61-6, 17 May 76 (Eng) *DL/77MAR495

DOPAMINE RECEPTOR

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWING HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUA-

Diabetes Literature—Keyword Index

DOSE

TIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Williams B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

DOSE

[TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL.)] Luft D, Schubert WR, Reichenmiller HE *Dtsch Med Wochenschr* 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabete Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

[RESULTS OF LONG TERM USE OF A LOW DOSE ESTROPROGESTATIN IN DIABETICS AND HIGH RISK WOMEN] Perlemuter L, Hazard J, Jouin-Caurier D, Clipet M *Nouv Presse Med* 5: 2853-6, 11 Dec 76 (Fre) DL/77MAR312

DRUG

GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS OF METHYLATION OF SULFONYLUREA DRUGS. Midha KK, Awang DV, McGilvray IJ *Biomed Mass Spectrom* 3: 100-9, Jun 76 (Eng) DL/77MAR9

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3,5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLYHDANTOIN. Mackerer CR, Saunders RN, Haettinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217

[DRUG INFORMATION FOR NURSES. OBESITY: THERAPEUTIC MAIN GROUP: ANORECTICS, APPETITE DEPRESSANTS. 3. COMPLICATIONS OF OBESITY] Lumholtz IB *Sygeplejersken* 76: 11, 13 Oct 76 (Dan) DL/77MAR355

STUDY OF DRUGS AFFECTING CHOLESTEROL-INDUCED ATHEROSCLEROSIS IN RABBITS. Kwak YS, Lee KT, Kim DN *Adv Exp Med Biol* 67: 149-67, 1976 (Eng) *DL/77MAR547

DRUG, HYPOGLYCEMIC

[CHANGES IN CARBOHYDRATE METABOLISM AND EFFICIENCY OF HYPOGLYCEMIC DRUGS RELATED TO THE LIGHT DARK CYCLE IN RATS. A STUDY ON STIMULATED DIAPHRAGM (AUTHORS TRANSL.)] Sterne J, Pecard F *Diabete Metab* 2: 21-5, Mar 76 (Fre) DL/77MAR110

DRUG INDUCED

[DRUG-INDUCED ICTERUS] Morl M *Fortschr Med* 94: 1934-6, 18 Nov 76 (Ger) DL/77MAR144

DRUG INTERACTION

[DRUG INTERACTIONS AND SIDE EFFECTS] Schelling JL *Schweiz Med Wochenschr* 106: 905-8, 3 Jul 76 (Fre) DL/77MAR338

DUCT-LIGATED PANCREAS

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuhe R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

DUCTAL

A HISTOPATHOLOGICAL STUDY ON THE ISLETS OF LANGERHANS AND DUCTAL EPITHELIAL METAPLASIA IN ATROPHIC LOBULI OF PANCREAS. Suda K, Komatsu K, Hashimoto K *Acta Pathol Jpn* 26: 561-72, Sep 76 (Eng) DL/77MAR429

DUODENAL ULCER

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dörner M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

DWARFISM

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

DYE

EFFECT OF NITRO BLUE TETRAZOLIUM DYE ON THE HEXOSE MONOPHOSPHATE SHUNT ACTIVITY OF HUMAN POLYMORPHONUCLEAR LEUKOCYTES. DeChatelet LR, Shirley PS *Biochem Med* 14: 391-8, Dec 75 (Eng) *DL/77MAR558

DYSCHROMIC AMYLOIDOSIS CUTIS

FAMILIAL GENERALIZED DYSCHROMIC AMYLOIDOSIS CUTIS. Eng AM, Cogan L, Gunnar RM, Blekys I *J Cutan Pathol* 3: 102-8, 1976 (Eng) DL/77MAR183

DYSCONTROL SYNDROME

THE NEUROLOGY OF EXPLOSIVE RAGE. THE DYSCONTROL SYNDROME. Elliott FA *Practitioner* 217: 51-60, Jul 76 (Eng) DL/77MAR318

EAR

EFFECT OF PHILORIZIN ON GLUCOSE TRANSPORT IN THE INNER EAR. Takeda T, Makimoto K, Murata K, Suehiro S, Iwai H *Acta Otolaryngol (Stockh)* 81: 424-8, May-Jun 76 (Eng) *DL/77MAR541

EDEMA, MACULAR

DIABETIC MACULAR EDEMA. Patz A, Fine SL *Int Ophthalmol Clin* 16: 105-113, Winter 76 (Eng) DL/77MAR157

EDUCATION

DIABETES EDUCATION - NEEDS FOR THE PATIENT AND PROFESSIONALS. Williams TF *J Med Soc NJ* 73: 1089-92, Dec 76 (Eng) DL/77MAR215

DIABETES, EMOTIONAL ASPECTS, AND THE EDUCATION OF THE PATIENT. Welborn TA *Med J Aust* 2: 572-3, 576, 9 Oct 76 (Eng) DL/77MAR260

ELASTIC MEMBRANE

[HISTOTOPOCHEMICAL INVESTIGATIONS ON ELASTIC MEMBRANES OF BLOOD VESSELS WITH SPECIAL REGARD OF DIABETES MELLITUS. IV. HEAVY METALS (AUTHORS TRANSL.)] Opitz M, Von Dorsche HH *Acta Histochem (Jena)* 56: 211-4, 1976 (Ger) DL/77MAR423

ELECTRICAL ACTIVITY

DYNAMIC CHARACTERISTICS OF ELECTRICAL ACTIVITY IN PANCREATIC BETA-CELLS. I. - EFFECTS OF CALCIUM AND MAGNESIUM REMOVAL. Atwater I, Beigelman PM *J Physiol (Paris)* 72: 769-86, Nov 76 (Eng) DL/77MAR208

ELECTRICAL CHARACTERISTIC

ELECTRICAL CHARACTERISTICS OF THE BETA-CELLS IN PANCREATIC ISLETS. Meissner HP *J Physiol (Paris)* 72: 757-67, Nov 76 (Eng) DL/77MAR207

ELECTRODIFFUSION

[COMPARISON OF JUMPING AND ELECTRODIFFUSION MECHANISMS OF PARTICLE MOVEMENT IN THIN MEMBRANES. I. STATEMENT OF THE PROBLEM. STATIONARY TRANSFER] Aitian SK, Markin VS, Malev VV *Biofizika* 21: 253-6, Mar-Apr 76 (Rus) *DL/77MAR488

ELECTROENCEPHALOGRAPHIC

[EVALUATION IN CHILDREN OF THE CLINICAL, BIOLOGICAL AND ELECTROENCEPHALOGRAPHIC SIDE EFFECTS OF L-ASPARAGINASE] Olive D, Cartault F, Legras B, Neimann N *Pediatr* 31: 259-78, Apr 76 (Fre) DL/77MAR307

ELECTRON MICROSCOPY

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PANCREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

ELECTROPHYSIOLOGIC

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNERVATION. Andersen JT, Bradley WE *Diabetes* 25: 1100-5, Dec 76 (Eng) DL/77MAR124

EMOTION-PRODUCING FACTOR

[PHYSIOLOGICAL AND BIOCHEMICAL REACTIONS TO A STANDARD BATTERY OF EMOTION-PRODUCING FACTORS] Simonov EE, Dlusskaia IG *Voen Med Zh* 66-9, Feb 76 (Rus) *DL/77MAR534

ENDOCRINE

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PANCREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

Diabetes Literature—Keyword Index

EPINEPHRINE

ENZYME, LIPOGENIC

INTERACTING ACTIONS OF INSULIN AND UNESTERIFIED FATTY ACIDS ON LIPOGENIC ENZYMES IN RAT ADIPOCYTES. Sooranna SR, Saggerson ED *FEBS Lett* 69: 144-8, 15 Oct 76 (Eng) DL/77MAR72

EPIDEMIOLOGY

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

EPIDEMIOLOGY OF DISEASES IN ADULT MALES WITH LEUKEMIA. Gibson R, Graham S, Lilienfeld A, Schuman L, Levin M, Swanson M *J Natl Cancer Inst* 56: 891-8, May 76 (Eng) DL/77MAR216

[PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES] Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccili MP *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283

[EPIDEMIOLOGICAL STUDIES CONCERNING DIABETES MELLITUS IN ROMANIA. PREMISES, METHODOLOGY AND RESULTS] Mincou I, Dumitrescu C, Stanesco J *Med Interne* 14: 241-51, Oct-Dec 76 (Fre) DL/77MAR334

EPIDEMIOLOGICAL BACKGROUND TO DIABETES. Gamble DR, Taylor KW *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 161-6, 1976 (Eng) DL/77MAR408

EPIDERMAL GROWTH FACTOR

STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

EPIDERMIS

ABSENCE OF THE SORBITOL PATHWAY IN EPIDERMIS. Roelfzema H, van den Hurk JJ, Mier PD *Br J Dermatol* 94: 577-8, May 76 (Eng) *DL/77MAR478

EPIDIDYMAL

[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhay M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

EPILEPTIC

EVIDENCE AGAINST H₂ AND K⁺ AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *Ino Betz E, ed. Ionic actions on vascular smooth muscle. Berlin, Springer, 1976. W3 SY732 1976i.* (Eng) DL/77MAR187

EPINEPHRINE

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Hafften K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I--THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

ENDOCRINE CELL

INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS. Helmsdaedter V, Feurle GE, Forssmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

ENDOCRINE FUNCTION

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

ENDOCRINE PANCREAS

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D] (Paris)* 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

ENDOCRINOLOGICAL DISEASE

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

ENDODERM

[APPEARANCE OF GLUCAGON-PRODUCING CELLS IN THE ENDODERM OF THE ALLANTOIS ASSOCIATED WITH INTESTINAL AND PANCREATIC MESENCHYME] Yasugi S *C R Acad Sci [D] (Paris)* 283: 383-5, 13 Sep 76 (Fre) DL/77MAR38

ENDOTOXIN

MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI ENDOTOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS. Marchetti G, Merlo L, Nosedà V, Brusoni B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527

ENEMA, BARIUM

USE OF GLUCAGON AS THE HYPOTONIC AGENT IN BARIUM ENEMA EXAMINATION. Jerele JJ *J Am Osteopath Assoc* 76: 264-71, Dec 76 (Eng) DL/77MAR186

ENERGETICS

MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI EN-

DOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS. Marchetti G, Merlo L, Nosedà V, Brusoni B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527

ENERGY METABOLISM

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL)] Girard J, Ferre P, Gilbert M *Diabete Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

ENVIRONMENTAL TEMPERATURE

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

ENZYMATIC

[DISADVANTAGES OF ACID PRECIPITATION OF PROTEINS DURING THE ASSAY OF BLOOD GLUCOSE BY THE ENZYMIC GLUCOSE OXIDASE-PEROXIDASE SYSTEM] Van Hung ML *C R Acad Sci [D] (Paris)* 282: 751-4, 23 Feb 76 (Fre) *DL/77MAR492

ENZYMATIC ACTIVITY

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblit PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

ENZYME

GLYCEROLKINASE--A REGULATORY ENZYME OF GLUCONEOGENESIS Seitz HJ, Porsche E, Tarnowski W *Acta Biol Med Ger* 35: 141-54, 1976 (Eng) DL/77MAR400

IS PHOSPHOLIPASE D REALLY AN ENZYME A COMPARISON OF IN SITU AND IN VITRO ACTIVITIES. Roughan PG, Slack CR *Biochim Biophys Acta* 431: 86-95, 22 Apr 76 (Eng) *DL/77MAR487

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jong HH, van Rijn van Alkemade JW, Wuite TP *Ino Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. W4 689 S941 1975.* (Eng) [26] *DL/77MAR509

MYOCARDIAL ENZYME LOSS: FACTORS LEADING TO REDUCTION OR EXACERBATION OF RELEASE. Hearse DJ, Humphrey SM *Recent Adv Stud Cardiac Struct Metab* 7: 327-34, 1975 (Eng) *DL/77MAR528

ENZYME, GLYCOLYTIC

THE SUBUNIT STRUCTURE OF GLYCOLYTIC ENZYMES. Ruth RC, Wold F *Comp Biochem Physiol [B]* 54: 1-6, 1976 (Eng) *DL/77MAR497

EPITHELIAL METAPLASIA

- AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jaquier E, Felber JP *Diabetes Metab* 1: 131-7, Sep 75 (Eng) DL/77MAR97
- ISOTOPE-DERIVATIVE MEASUREMENTS OF PLASMA NOREPINEPHRINE AND EPINEPHRINE IN MAN. Cryer PE *Diabetes* 25: 1071-82, Nov 76 (Eng) [52] DL/77MAR122

EPITHELIAL METAPLASIA

- A HISTOPATHOLOGICAL STUDY ON THE ISLETS OF LANGERHANS AND DUCTAL EPITHELIAL METAPLASIA IN ATROPHIC LOBULI OF PANCREAS. Suda K, Komatsu K, Hashimoto K *Acta Pathol Jpn* 26: 561-72, Sep 76 (Eng) DL/77MAR429

ERECTION

- [PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospichal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

ESCHERICHIA COLI

- PROTEASE I FROM ESCHERICHIA COLI. SOME PHYSICO-CHEMICAL PROPERTIES AND SUBSTRATE SPECIFICITY. Pacaud M, Sibilli S, Bras G *Eur J Biochem* 69: 141-51, 1 Oct 76 (Eng) DL/77MAR65
- MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI ENDOTOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS. Marchetti G, Merlo L, Nosedà V, Brusoni B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527

ESTRIOL EXCRETION

- CORRELATION BETWEEN MORNING URINE ESTRIOL CONCENTRATION AND 24-HOUR ESTRIOL EXCRETION. Biezenski JJ, Facog, Millner SN *Obstet Gynecol* 48: 678-81, Dec 76 (Eng) DL/77MAR297

ESTRIOL, URINARY

- PREDICTION OF FETAL OUTCOME BY URINARY ESTRIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHA-FETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295
- CORRELATION BETWEEN MORNING URINE ESTRIOL CONCENTRATION AND 24-HOUR ESTRIOL EXCRETION. Biezenski JJ, Facog, Millner SN *Obstet Gynecol* 48: 678-81, Dec 76 (Eng) DL/77MAR297

ESTROGEN

- ESTROGENS AND ATHEROSCLEROSIS. Ryan KR *Clin Obstet Gynecol* 19: 805-15, Dec 76 (Eng) DL/77MAR43

ESTROPROGESTATIF

- [RESULTS OF LONG TERM USE OF A LOW DOSE ESTROPROGESTATIF IN DIABETICS AND HIGH RISK WOMEN] Perlemuter L, Hazard J, Jouin-Caurier D, Clipet M *Nouv Presse Med* 5: 2853-6, 11 Dec 76 (Fre) DL/77MAR312

ETHYLENE DICHLORIDE

- TOLERANCE AND ACCEPTABLE DAILY INTAKE OF ETHYLENE DICHLORIDE IN THE CHICKEN DIET. Alumot E, Meidler M, Holstein P *Food Cosmet Toxicol* 14: 111-4, Apr 76 (Eng) *DL/77MAR503

ETIOLOGY

- CURRENT ASPECTS OF AETIOLOGY AND DIAGNOSIS IN DIABETES MELLITUS. Turtle JR *Med J Aust* 2: 458-60, 18 Sep 76 (Eng) DL/77MAR256

- ISLET CHANGES SUGGESTING A POSSIBLE IMMUNE AETIOLOGY OF HUMAN DIABETES MELLITUS. Gepts W *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 95-106, 1976 (Eng) [124] DL/77MAR422

EXCRETION

- CORRELATION BETWEEN MORNING URINE ESTRIOL CONCENTRATION AND 24-HOUR ESTRIOL EXCRETION. Biezenski JJ, Facog, Millner SN *Obstet Gynecol* 48: 678-81, Dec 76 (Eng) DL/77MAR297
- [EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Bobilewicz D, Wilk M, Obuchowicz-Fidels B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

EXCRETION, URINE

- [URINARY EXCRETION OF CATECHOLAMINES IN OBESE SUBJECTS AND IN DIABETICS (AUTHORS TRANSL)] Giordano R, Nardelli GM, Scardapane R *Diabetes Metab* 2: 11-3, Mar 76 (Fre) DL/77MAR108

EXERCISE

- [PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabetes Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90
- INFLUENCE OF GLUCOSE INGESTION ON FUEL-HORMONE RESPONSE DURING PROLONGED EXERCISE. Ahlborg G, Felig P *J Appl Physiol* 41: 683-8, Nov 76 (Eng) DL/77MAR167
- EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Miltrey HR, Wilms B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172
- EFFECT OF EXERCISE ON GLUCOSE UPTAKE IN DIABETIC ADOLESCENTS. Dorchy H, Ego F, Baran D, Loeb H *Acta Paediatr Belg* 29: 83-5, Apr-Jun 76 (Eng) DL/77MAR427
- EFFECT OF PROPRANOLOL ON THYROID-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS. Uscilko HK, Brzezinska Z, Greenleaf JE *Acta Physiol Pol* 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543
- THE EFFECT OF RESTRICTION OF PHYSICAL ACTIVITY ON ADAPTATION TO PROLONGED EXERCISE IN DOGS. Pohoska E *Acta Physiol Pol* 27: 199-202, Mar-Apr 76 (Eng) *DL/77MAR544

- THE NATURE OF THE TRAINING RESPONSE; PERIPHERAL AND CENTRAL ADAPTATIONS OF ONE-LEGGED EXERCISE. Saltin B, Nazari K, Costill DL, Stein E, Jansson E, Essen B, Gollnick D *Acta Physiol Scand* 96: 289-305, Mar 76 (Eng) *DL/77MAR545
- LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOX-

- YKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochem Med* 14: 355-67, Dec 75 (Eng) *DL/77MAR557

EXERCISE, MUSCULAR

- STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

EXOCYTOSIS

- INTRACELLULAR MEMBRANE JUNCTIONS DURING THE EXOCYTOSIS OF INSULIN. Dahl G, Berger W, Meissner HP *J Physiol (Paris)* 72: 703-9, Nov 76 (Eng) DL/77MAR202
- AN APPROACH TO A MOLECULAR UNDERSTANDING OF EXOCYTIC INSULIN RELEASE. Lazarus NR, Davis B, O'Connor KJ *J Physiol (Paris)* 72: 787-94, Nov 76 (Eng) DL/77MAR209

EXTERNAL OTITIS, MALIGNANT

- MALIGNANT EXTERNAL OTITIS. Prasad UJ *Laryngol Otol* 90: 963-5, Oct 76 (Eng) DL/77MAR194

EYE DISEASE

- [SOURCE DOCUMENTS FOR ELECTRONIC DATA PROCESSING IN SELECTED EYE DISEASES] Majewska K, Czechowicz-Janicka K, Janik J, Semeniuk H, Ruskowski J, Doroszewski J *Klin Oczna* 46: 999-1003, Sep 76 (Pol) DL/77MAR235

FACIAL MUCORMYCOSIS

- [ACUTE FACIAL MUCORMYCOSIS IN A DIABETIC SUBJECT. SUCCESSFUL TREATMENT WITH AMPHOTERICIN B] Olivier R, Legrand R, Lefebvre P *Diabetes Metab* 1: 221-5, Dec 75 (Fre) DL/77MAR104

FAMILIAL

- FAMILIAL GENERALIZED DYSCROMIC AMYLOIDOSIS CUTIS. Eng AM, Cogan L, Gunnar RM, Blekys I *J Cutan Pathol* 3: 102-8, 1976 (Eng) DL/77MAR183
- FAMILIAL CONGENITAL MONOCHROMATISM, CATARACTS, AND SENSORINEURAL DEAFNESS. Jan JE, Tze WJ, Johnston AC, Dunn HG *Am J Dis Child* 130: 1349-50, Dec 76 (Eng) DL/77MAR444

FASTING

- EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION. Olefsky JM *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181
- PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

FAT

- INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195

Diabetes Literature—Keyword Index

FOOD INTAKE

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Riese S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H *Verh Dtsch Ges Inn Med* 81: 1411-5, 1975 (Ger) *DL/77MAR537

FAT CELL, ISOLATED

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBES HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

EFFECT OF ANTECEDENT HORMONE ADMINISTRATION ON LIPOLYSIS IN THE PERFUSED ISOLATED FAT CELL. Solomon SS, Duckworth WC *J Lab Clin Med* 88: 984-94, Dec 76 (Eng) DL/77MAR193

FAT DIET

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

FAT METABOLISM

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

FATTY ACID, FREE

[CHANGES IN FREE FATTY ACID METABOLISM IN RABBITS SUBJECTED TO PROLONGED INSULIN ADMINISTRATION] Marquie G *C R Acad Sci [D] (Paris)* 283: 519-21, 20 Sep 76 (Fre) DL/77MAR39

INDIVIDUAL FREE FATTY ACIDS IN AMNIOTIC FLUID AND IN PLASMA OF PREGNANT WOMEN. Hagenfeldt L, Hagenfeldt K *Br J Obstet Gynaecol* 83: 383-6, May 76 (Eng) *DL/77MAR481

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

EFFECTS OF NOREPINEPHRINE AND THYROXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Moriya K, Maekubo H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

INFLUENCE OF LACTATE INFUSION ON GLUCOSE AND FFA METABOLISM IN MAN. Ahlberg G, Hagenfeldt L, Wahren J *Scand J Clin Lab Invest* 36: 193-201, Mar 76 (Eng) *DL/77MAR530

FATTY ACID, NONESTERIFIED

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

FATTY ACID, UNESTERIFIED

INTERACTING ACTIONS OF INSULIN AND UNESTERIFIED FATTY ACIDS ON LIPOGENIC ENZYMES IN RAT ADIPOCYTES. Sooranna SR, Saggerson ED *FEBS Lett* 69: 144-8, 15 Oct 76 (Eng) DL/77MAR72

FEED BACK INHIBITION

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

FEEDING

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195

FEEDING PATTERN

EFFECTS OF ALLOXAN INDUCED DIABETES ON THE FEEDING PATTERNS OF RATS. Thomas DW, Scharrer E, Mayer J *J Physiol Behav* 17: 345-9, Aug 76 (Eng) DL/77MAR329

FETAL

FETAL BIPARIETAL DIAMETER AS A PREDICTOR OF A MATURE LECITHIN/SPHINGOMYELIN RATIO. Goldstein P, Gershenson D, Hobbins JC *Obstet Gynecol* 48: 667-9, Dec 76 (Eng) DL/77MAR296

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

THE EFFECT OF MATERNAL HYPOTHYROIDISM ON MATERNAL AND FETAL TISSUE GLUCOSE-1-14C INCORPORATION IN RATS. Porterfield SP, Hendrich CE *Horm Res* 6: 236-46, 1975 (Eng) *DL/77MAR504

FETAL OUTCOME

PREDICTION OF FETAL OUTCOME BY URINARY ESTRIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHA-FETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

FETUS

ADRENOCORTICAL-RELATED MATURATIONAL EVENTS IN THE FETUS. Liggins GC *Am J Obstet Gynecol* 126: 931-41, 1 Dec 76 (Eng) [68] DL/77MAR445

FIBER

FIBER CONNECTIONS IN THE HYPOTHALAMUS AND SOME AUTONOMIC FUNCTIONS. Ban T *Pharmacol Biochem Behav* 3: 3-13, 1975 (Eng) *DL/77MAR525

FIBROBLAST, CULTURED

EARLY EFFECTS OF SERUM ON PHOSPHOLIPID METABOLISM IN UNTRANSFORMED AND ONCOGENIC VIRUS-TRANSFORMED CULTURED FIBROBLASTS. Ciechanover A, Hershko A *Biochem Biophys Res Commun* 73: 85-91, 8 Nov 76 (Eng) DL/77MAR475

FIBULAR DYNAMICS

HUMAN FIBULAR DYNAMICS. PP. 1-6. Weinert CR Jr, McMaster JH, Scranton PE Jr, Ferguson RJ *InO Bateman JE, ed. Foot science. Philadelphia, Saunders, 1976. WE 880 A511f 1974. (Eng) *DL/77MAR506*

FLUID

INTRAVENOUS FLUID THERAPY DURING PROLONGED SURGERY. Foster PA *S Afr Med J* 50: 1659-62, Oct 76 (Eng) DL/77MAR348

FLUID, AMNIOTIC

THE VALUE OF AMNIOTIC FLUID LECITHIN/SPHINGOMYELIN DETERMINATION IN PREDICTION OF HYALINE MEMBRANE DISEASE. Lofstrand T, Fex G *Acta Obstet Gynecol Scand* 55: 419-27, 1976 (Eng) DL/77MAR425

INDIVIDUAL FREE FATTY ACIDS IN AMNIOTIC FLUID AND IN PLASMA OF PREGNANT WOMEN. Hagenfeldt L, Hagenfeldt K *Br J Obstet Gynaecol* 83: 383-6, May 76 (Eng) *DL/77MAR481

FLUORESCENCE

FLUORESCENCE HISTOCHEMICAL STUDY OF THE PANCREAS IN THE CAT. Onda M *Gastroenterol Jpn* 11: 246-61, 1976 (Eng) DL/77MAR131

FOOD

[STATISTICAL RELATIONSHIPS BETWEEN FOOD SUPPLY AND THE MORTALITY OF SOME CHRONIC DEGENERATIVE DISEASES IN EIGHT INDUSTRIALLY DEVELOPED COUNTRIES] Haenel H, Ulbricht G, Oehmisch W, Erhardt V *Z Gesamte Hyg* 22: 748-58, 1976 (Ger) DL/77MAR390

ORNITHINE DECARBOXYLASE IN RAT SMALL INTESTINE: STIMULATION WITH FOOD OR INSULIN. Maudsley DV, Leif J, Kobayashi Y *Am J Physiol* 231: 1557-61, Nov 76 (Eng) DL/77MAR452

FOOD INGESTION

EFFECT OF FOOD INGESTION ON CERTAIN CLINICALLY IMPORTANT BIOCHEMICAL INVESTIGATIONS. Valame S, Tanksale KG, Sheth UK *J Postgrad Med* 21: 173-6, Oct 75 (Eng) *DL/77MAR514

FOOD INTAKE

THE ROLE OF INSULIN IN THE GLUCOSTATIC CONTROL OF FOOD INTAKE. Rezek M *Can J Physiol Pharmacol* 54: Oct 76 (Eng) [97] DL/77MAR22

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DE-

Diabetes Literature—Keyword Index

FOOT CARE

NERVATION TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Trierley GJ, Bernardis LL. *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

FOOT CARE

DIABETIC FOOT CARE. PROBLEMS AND PRACTICAL SUGGESTIONS. Chandler PT. *Postgrad Med* 60: 59-63, Dec 76 (Eng) [22] DL/77MAR317

FORESTOMACH

INVESTIGATIONS ON THE FUNCTION OF THE RAT FORESTOMACH. Kunstyr I, Peters K, Gartner K. *Lab Anim Sci* 26: 166-70, Apr 76 (Eng) *DL/77MAR519

FREE FATTY ACID

[CHANGES IN FREE FATTY ACID METABOLISM IN RABBITS SUBJECTED TO PROLONGED INSULIN ADMINISTRATION] Marquie G. *C R Acad Sci [D] (Paris)* 283: 519-21, 20 Sep 76 (Fre) DL/77MAR39

INDIVIDUAL FREE FATTY ACIDS IN AMNIOTIC FLUID AND IN PLASMA OF PREGNANT WOMEN. Hagenfeldt L, Hagenfeldt K. *Br J Obstet Gynaecol* 83: 383-6, May 76 (Eng) *DL/77MAR481

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC. *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

EFFECTS OF NOREPINEPHRINE AND THYROXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Moriya K, Maekubo H, Honma K, Itoh S. *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

FUEL

INFLUENCE OF GLUCOSE INGESTION ON FUEL-HORMONE RESPONSE DURING PROLONGED EXERCISE. Ahlborg G, Felig P. *J Appl Physiol* 41: 683-8, Nov 76 (Eng) DL/77MAR167

FUMARASE, LIVER

DIETARY CONTROL OF INTRACELLULAR DISTRIBUTION OF RAT LIVER FUMARASE. Nakashima K, Takeda M, Tuboi S. *Biochem Biophys Res Commun* 72: 1562-9, 18 Oct 76 (Eng) DL/77MAR474

GALACTOSE

SODIUM PUMPS AND GALACTOSE TRANSFER IN THE SHORT-CIRCUITED SMALL INTESTINE. Ude JF, Barst RJ. *Experientia* 32: 188-90, 15 Feb 76 (Eng) *DL/77MAR500

GAS

PNEUMOPERITONEUM AND RIGHT UPPER QUADRANT GAS IN A DIABETIC MAN. Butler CF, Fred HL, Carlson V. *JAMA* 236: 2789-90, 13 Dec 76 (Eng) DL/77MAR219

GAS CHROMATOGRAPHY

GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS OF METHYLATION OF SULFONYLUREA DRUGS. Midha KK, Awang DV, McGilveray IJ. *Biomed Mass Spectrom* 3: 100-9, Jun 76 (Eng) DL/77MAR9

GAS CHROMATOGRAPHIC ANALYSES OF OXON PRINCIPLES AND A STUDY ON THEIR HYPOGLYCEMIC ACTION. Augusti

KT. *Indian J Exp Biol* 14: 110-2, Mar 76 (Eng) DL/77MAR150

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H. *Verh Dtsch Ges Inn Med* 81: 1411-5, 1975 (Ger) *DL/77MAR537

GASTRECTOMY, PARTIAL

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dorner M, Kaess H. *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

GASTRIC

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH. *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

GASTRIC ACID

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dorner M, Kaess H. *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

GASTRIC ACID SECRETION

MECHANISM OF INHIBITION OF GASTRIC ACID SECRETION BY HYPERTONIC SOLUTIONS AND VASOPRESSIN. Limlomwongse L, Nophakoon J, Thithapandha A. *Pfuegers Arch* 366: 159-65, 5 Nov 76 (Eng) DL/77MAR309

GASTRIC INHIBITORY POLYPEPTIDE

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, Odorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL. *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

GASTRIN

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL.)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M. *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

GASTRIN, SERUM

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dorner M, Kaess H. *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

GASTROINTESTINAL TISSUE

MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M. *Diabetes* 25: 1018-25, Nov 76 (Eng) DL/77MAR115

GENE

ADRENAL FUNCTION IN THE DIABETIC MURINE MOUSE (GENE SYMBOL DBM). Naess P. *Acta Physiol Scand* 98: 395-9, Dec 76 (Eng) DL/77MAR435

GENETIC

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL. *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

GENETIC SUSCEPTIBILITY

GENETIC SUSCEPTIBILITY IN DIABETES MELLITUS: ANALYSIS OF THE HLA ASSOCIATION. Cudworth AG, Woodrow JC. *Br Med J* 2: 846-8, 9 Oct 76 (Eng) DL/77MAR14

GENETICS

[GENETICS OF DIABETES MELLITUS (AUTHORS TRANSL.)] Feingold J. *Diabetes Metab* 1: 123-9, Jun 76 (Fre) [34] DL/77MAR94

GENITAL INFANTILISM

[SYNDROME OF PHYSICAL AND GENITAL INFANTILISM IN CHILDREN WITH SEVERE FORMS OF DIABETES MELLITUS] Martynova MI, Lapchenko LN, Luzianina GA. *Vopr Okhr Materin Det* 21: 3-7, Aug 76 (Rus) DL/77MAR377

GERIATRIC

SPECIAL NEEDS OF THE GERIATRIC DIABETIC PATIENT. Small D. *J Pract Nurs* 26: 25-7, 36, Nov 76 (Eng) DL/77MAR213

GERIATRIC PATIENT

[CHRONIC GERIATRIC PATIENT IN THE HOSPITAL] Schubert R, Fusgen I. *Fortschr Med* 94: 1651-7, 14 Oct 76 (Ger) DL/77MAR142

GESTATIONAL DIABETES

SCREENING FOR GESTATIONAL DIABETES BY PLASMA GLUCOSE LEVELS [LETTER]. Amankwah KS. *Am J Obstet Gynecol* 126: 1052, 15 Dec 76 (Eng) DL/77MAR446

GESTATIONAL DIABETIC

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R. *Diabetes* 25: 1118-22, Dec 76 (Eng) DL/77MAR127

GLAND, MAMMARY

ACTION OF PROLACTIN ON ORNITHINE DECARBOXYLASE ACTIVITY IN MAMMARY GLAND EXPLANTS OF MICE. Rillema JA. *Endocr Res Commun* 3: 297-305, 1976 (Eng) DL/77MAR55

GLIBORNURIDE

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C. *Diabetes Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

GLUCAGON RESPONSE

GLIPIZIDE

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

DIAZOXIDE, GLIPIZIDE, HYPERTENSION AND HYPOGLYCAEMIA (LETTER). Farr MJ *Lancet* 2: 1138, 20 Nov 76 (Eng) DL/77MAR242

GLISOXEPIDE TREATMENT

[GLISOXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Happ J, Beyer J, Ulreich F, Schoffling K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

GLOMERULAR STRUCTURE

THE INFLUENCE OF INSULIN AND INSULIN ANTIBODIES ON THE GLOMERULAR STRUCTURE. Wehner H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 241-50, 1976 (Eng) DL/77MAR414

GLOMERULOSCLEROSIS, DIABETIC

[THERAPY OF DIABETIC GLOMERULOSCLEROSIS (KIMMELSTIEL-WILSON SYNDROME)] Kuhlmann H *Dtsch Med Wochenschr* 101: 1769-72, 26 Nov 76 (Ger) DL/77MAR53

GLUCAGON

[THERAPEUTIC ACTION OF GLUCAGON ON PATHOLOGICAL STATES OF THE MYOCARDIUM, ESPECIALLY ON SPECIFIC CONDUCTION TISSUE DISORDERS] Sanna S, Leo P, Netter R *Boll Soc Ital Cardiol* 20: 1233-49, 1975 (Ita) DL/77MAR2

QUANTITATIVE ASPECTS OF SECRETION AND HEPATIC REMOVAL OF GLUCAGON IN SHEEP. Brockman RP, Manns JG, Bergman EN *Can J Physiol Pharmacol* 54: 666-70, Oct 76 (Eng) DL/77MAR23

INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS. Helmstaedt V, Feurle GE, Forssmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

[APPEARANCE OF GLUCAGON-PRODUCING CELLS IN THE ENDODERM OF THE ALLANTOIS ASSOCIATED WITH INTESTINAL AND PANCREATIC MESENCHYME] Yasugi S *C R Acad Sci [D] (Paris)* 283: 383-5, 13 Sep 76 (Fre) DL/77MAR38

[THE EFFECTS OF CALCITONIN, GLUCAGON AND THE DIBUTYRYL DERIVATIVE OF CYCLIC AMP ON PLASMA-RENIN ACTIVITY (AUTHORS TRANSL)] Werning C, Stiel D *Dtsch Med Wochenschr* 101: 1690-2, 12 Nov 76 (Ger) DL/77MAR49

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

REGULATION BY GLUCOSE AND CYCLIC NUCLEOTIDES OF THE GLUCAGON AND INSULIN RELEASE INDUCED BY AMINO ACIDS. Jarrousse C, Rosselin G *Diabete Metab* 1: 135-42, Sep 75 (Eng) DL/77MAR95

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL)] Luyckx A *Diabete Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M *Diabetes* 25: 1018-25, Nov 76 (Eng) DL/77MAR115

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I—THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chasson JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

USE OF GLUCAGON AS THE HYPOTONIC AGENT IN BARIUM ENEMA EXAMINATION. Jerele JJ *J Am Osteopath Assoc* 76: 264-71, Dec 76 (Eng) DL/77MAR186

SKIN RASH IN PATIENT RECEIVING GLUCAGON (LETTER). Barber SG, Hamer JD *Lancet* 2: 1138, 20 Nov 76 (Eng) DL/77MAR243

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

[USE OF GLUCAGON IN THE TREATMENT OF SEVERE CONTRACTILE INSUFFICIENCY OF THE MYOCARDIUM] Bertolazzi R, Ricciardi S, Marengo G *Minerva Med* 67: 3519-24, 10 Nov 76 (Ita) DL/77MAR286

RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION. Ceremuzyn-Ski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

SOMATOSTATIN INHIBITION OF GLUCAGON-STIMULATED ADENOSINE 3,5-MONOPHOSPHATE ACCUMULATION IN ISOLATED HEPATOCYTES. Oliver JR, Long K, Wagle SR, Allen DO *Proc Soc Exp Biol Med* 153: 367-9, Nov 76 (Eng) DL/77MAR327

GLUCAGON-AIDED REDUCTION OF INTUSUSCEPTION. Fisher JK, Germann DR *Radiology* 122: 197-8, Jan 77 (Eng) DL/77MAR332

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

EFFECT OF GLUCAGON ON HEPATIC CIRCULATION IN THE PIG. Lindberg B, Darle N *Arch Surg* 111: 1379-83, Dec 76 (Eng) DL/77MAR469

GLUCAGON ADMINISTRATION

[EFFECT OF GLUCAGON ADMINISTRATION ON BLOOD GLUCOSE LEVEL IN TOTALLY DEPANCREATIZED DOGS (AUTHORS TRANSL)] Nishimura I *Arch Jpn Chir* 45: 390-7, 1 Sep 76 (Jpn) DL/77MAR467

GLUCAGON IMMUNOREACTIVITY

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

GLUCAGON, INTRAVENOUS

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

GLUCAGON, PANCREATIC

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL)] Ruitton A, Frederich F *Diabete Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

GLUCAGON, PLASMA

PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

GLUCAGON RELEASE

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaise WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

GLUCAGON RESPONSE

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

GLUCAGON RESPONSE

GLUCAGON SECRETION

INTERACTION OF CALCIUM AND GLUCOSE ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabetes Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

GLUCAGON, SERUM

[DETERMINATION OF SERUM GLUCAGON] Morita S, Baba S *Jpn J Clin Med* 34 suppl: 2290-8, 1976 (Jpn) [68] DL/77MAR229

GLUCOCORTICOID

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

PHYSIOLOGIC SIGNIFICANCE OF GLUCOCORTICIDS AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

[INFLUENCE OF FEATURES OF THE ACT OF DELIVERY IN DIABETIC WOMEN ON THE CONCENTRATION OF GLUCOCORTICOID HORMONES IN THE BLOOD AND URINE OF NEWBORNS] Kalinina LM *Akush Ginekol (Mosk)* 5: 44-7, May 76 (Rus) DL/77MAR455

GLUCONEOGENESIS

HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN RELATION TO GLUCONEOGENESIS AND LIPOGENESIS. Titheradge MA, Coore HG *FEBS Lett* 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76

GLYCEROLKINASE—A REGULATORY ENZYME OF GLUCONEOGENESIS Seitz HJ, Porsche E, Tarnowski W *Acta Biol Med Ger* 35: 141-54, 1976 (Eng) DL/77MAR400

GLUCONEOGENESIS, HEPATIC

PHYSIOLOGIC SIGNIFICANCE OF GLUCOCORTICIDS AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

GLUCOSE

INTERACTION OF CALCIUM AND GLUCOSE ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabetes Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabetes Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

REGULATION BY GLUCOSE AND CYCLIC NUCLEOTIDES OF THE GLUCAGON AND INSULIN RELEASE INDUCED BY AMINO ACIDS. Jarrousse C, Rosselin G *Diabetes Metab* 1: 135-42, Sep 75 (Eng) DL/77MAR95

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, Odorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

INFLUENCE OF GLUCOSE INGESTION ON FUEL-HORMONE RESPONSE DURING PROLONGED EXERCISE. Ahlborg G, Felig P *J Appl Physiol* 41: 683-8, Nov 76 (Eng) DL/77MAR167

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY. Machtey I, Syrkis I, Nissimov MR, Lobel H *J Am Geriatr Soc* 24: 534-7, Dec 76 (Eng) DL/77MAR185

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Bessman SP *J Physiol (Paris)* 72: 721-8, Nov 76 (Eng) DL/77MAR204

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION. Cermuzynski-Ski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315

SIMULATION STUDY OF CONTROL OF HEPATIC GLYCOGEN SYNTHESIS BY GLUCOSE AND INSULIN. El-Refai M, Bergman RN *Am J Physiol* 231: 1608-19, Nov 76 (Eng) DL/77MAR453

GLUCOSE AND INSULIN RESPONSES IN SHEEP SUBJECTED TO A SECOND EPISODE OF HEMORRHAGIC SHOCK. Fritz SD, Flitts CT, Colwell JA *Am Surg* 42: 899-907, Dec 76 (Eng) DL/77MAR457

[PLASMAIC LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Penquera FG *An Esp*

Pediatr 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

THE EFFECT OF MATERNAL HYPOTHYROIDISM ON MATERNAL AND FETAL TISSUE GLUCOSE-1-14C INCORPORATION IN RATS. Porterfield SP, Hendrich CE *Horm Res* 6: 236-46, 1975 (Eng) *DL/77MAR504

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

A SEMIAUTOMATED MICROMETHOD FOR DEXTRAN IN THE PRESENCE OF GLUCOSE. Weet JF, Cobb CA, Lebric SJ *J Lab Clin Med* 87: 898-902, May 76 (Eng) *DL/77MAR512

GLUCOSE PREFERENCE AND CALORIC REGULATION IN WEANLING RATS WITH VENTROMEDIAL AND DORSOMEDIAL HYPOTHALAMIC LESIONS. Bernardis LL, Border JR *J Neurosci Res* 1: 485-93, 1975 (Eng) *DL/77MAR515

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA] Mioli V, Pacchiarotti P, Ragaiolo M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523

INFLUENCE OF LACTATE INFUSION ON GLUCOSE AND FFA METABOLISM IN MAN. Ahlborg G, Hagenfeldt L, Wahren J *Scand J Clin Lab Invest* 36: 193-201, Mar 76 (Eng) *DL/77MAR530

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

D-GLUCOSE

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A, Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76 (Eng) DL/77MAR75

GLUCOSE ABSORPTION

[LIPID AND GLUCOSE ABSORPTION AFTER VAGOTOMY WITH CONSERVATIVE RESECTION OF THE STOMACH] Postolov PM, Fetisov VA, Missiura NV *Vestn Khir* 114: 29-31, Jan 75 (Rus) *DL/77MAR533

GLUCOSE, BLOOD

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatzi, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

GLUCOSE TRANSPORT

GLUCOSE, PORTAL

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENervation TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Trietley GJ, Bernardis LL. *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

GLUCOSE PRODUCTION

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chiasson JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW. *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

GLUCOSE, SERUM

[DETERMINATION OF SERUM GLUCOSE AND INTERPRETATION OF GLUCOSE TOLERANCE TEST] Sano T, Abe M. *Jpn J Clin Med* 34 suppl: 1874-88, 1976 (Jpn) DL/77MAR225

GLUCOSE TOLERANCE

ABNORMAL GLUCOSE TOLERANCE AND ARGININE TOLERANCE TESTS IN HUNTINGTONS DISEASE. Podolsky S, Leopold NA. *Gerontology* 23: 55-63, 1977 (Eng) DL/77MAR136

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED. *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL)] Schimmler W, Schuderer A, Kurz M. *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

GLUCOSE TOLERANCE TEST

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOGLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W. *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

[DETERMINATION OF SERUM GLUCOSE AND INTERPRETATION OF GLUCOSE TOLERANCE TEST] Sano T, Abe M. *Jpn J Clin Med* 34 suppl: 1874-88, 1976 (Jpn) DL/77MAR225

GLUCOSE TRANSPORT

EFFECT OF INSULIN ON GLUCOSE TRANSPORT IN DMBA-INDUCED MAMMARY TUMORS. Harmon JT, Hilf R. *Eur J Cancer* 12: 933-4, Nov 76 (Eng) DL/77MAR67

EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION. Olefsky JM. *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181

EFFECT OF PHLORIZIN ON GLUCOSE TRANSPORT IN THE INNER EAR. Takeda T, Makimoto K, Murata K, Suehiro S, Iwai H. *Acta Otolaryngol (Stockh)* 81: 424-8, May-Jun 76 (Eng) *DL/77MAR541

GLUCOSE-INDUCED

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A. *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

GLUCOSE INFUSION

[HYPERTRIGLYCERIDEMIA IN RATS FOLLOWING GLUCOSE INFUSION--AN ANIMAL EXPERIMENT MODEL FOR THE STUDY OF TYPE IV HYPERLIPIDEMIA PATHOGENESIS] Heuck CC. *Verh Dtsch Ges Inn Med* 81: 1446-9, 1975 (Ger) *DL/77MAR538

GLUCOSE, INTRAVENOUS

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D. *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

GLUCOSE LOAD

QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE. Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J. *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253

GLUCOSE METABOLISM

[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. I. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhay M, Gommers A. *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

[THE EFFECT OF AGE ON THE IN VITRO RESPONSE TO INSULIN IN THE RAT. I. GLUCOSE METABOLISM ON THE DIAPHRAGM (AUTHORS TRANSL)] Gommers A, Dehez-Delhay M, Jeanjean M. *Gerontology* 23: 134-41, 1977 (Fre) DL/77MAR138

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G. *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

INFLUENCE OF ACETATE ON GLUCOSE METABOLISM IN THE PERFUSED HIND-QUARTER OF THE RAT. Karlsson N, Fellenius E, Kiessling KH. *Acta Physiol Scand* 98: 347-55, Nov 76 (Eng) DL/77MAR434

[GLUCOSE METABOLISM DURING STEROID AND BIGUANIDE THERAPY USING TRITIATED GLUCOSE] Bottermann P, Schweigart U, Emmler R. *Verh Dtsch Ges Inn Med* 81: 1481-4, 1975 (Ger) *DL/77MAR539

GLUCOSE OXIDATION

EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION. Olefsky JM. *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181

GLUCOSE, PLASMA

SCREENING FOR GESTATIONAL DIABETES BY PLASMA GLUCOSE LEVELS [LETTER]. Amankwah KS. *Am J Obstet Gynecol* 126: 1052, 15 Dec 76 (Eng) DL/77MAR446

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I--THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS. *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

[EFFECT OF GLUCAGON ADMINISTRATION ON BLOOD GLUCOSE LEVEL IN TOTALLY DEPANCREATIZED DOGS (AUTHORS TRANSL)] Nishimura I. *Arch Jpn Chir* 45: 390-7, 1 Sep 76 (Jpn) DL/77MAR467

[DISADVANTAGES OF ACID PRECIPITATION OF PROTEINS DURING THE ASSAY OF BLOOD GLUCOSE BY THE ENZYMIC GLUCOSE OXIDASE-PEROXIDASE SYSTEM] Van Hung ML. *C R Acad Sci (D) (Paris)* 282: 751-4, 23 Feb 76 (Fre) *DL/77MAR492

CYCLIC NUCLEOTIDES AND CRUSTACEAN BLOOD GLUCOSE LEVELS. Spindler KD, Willig A, Keller R. *Comp Biochem Physiol [A]* 54: 301-4, 1976 (Eng) *DL/77MAR496

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Bobiewicz D, Wilk M, Obuchowicz-Fidelus B. *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

THE EFFECTS OF D,L-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE. PP. 165-71. Walker CA, Charlton CG. In: Singh JM, Lal H, ed. *Drug addiction. Vol 40. New aspects of analytical and clinical toxicology*. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) *DL/77MAR511

LETTER: ACCURACY OF BLOOD GLUCOSE MEASUREMENTS USING A REFLECTANCE METER. Anonymous. *Med J Aust* 1: 414-5, 20 Mar 76 (Eng) *DL/77MAR521

GLUCOSE CONCENTRATION

[BEHAVIOR OF CALCIUM, INORGANIC PHOSPHORUS, MAGNESIUM AND GLUCOSE CONCENTRATIONS IN THE PLASMA OF EWES IN THE PERINATAL PERIOD] Brenner K, Seidel H. *Arch Exp Veterinaarmed* 29: 939-45, Dec 75 (Ger) *DL/77MAR553

GLUCOSE CONCENTRATION, PLASMA

A RAPID METHOD FOR THE MEASUREMENT OF PLASMA GLUCOSE CONCENTRATION. Telfer Brunton WA, Percy-Robb IW. *Clin Chim Acta* 69: 131-5, 17 May 76 (Eng) *DL/77MAR494

GLUCOSE CONSUMPTION

GLUCOSE CONSUMPTION IN RAT CEREBRAL CORTEX IN NORMOXIA, HYPOXIA AND HYPERCAPNIA. Borgstrom L, Norberg K, Siesjö BK. *Acta Physiol Scand* 96: 569-74, Apr 76 (Eng) *DL/77MAR546

GLUCOSE DEPLETION

EFFECTS OF ANOXIA AND GLUCOSE DEPLETION ON ISOLATED VEINS OF THE DOG. Vanhoutte PM. *Am J Physiol* 230: 1261-8, May 76 (Eng) *DL/77MAR550

GLUCOSE HOMEOSTASIS

EFFECTS OF SUBSACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacaw S, Singhal RL. *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

GLUCOSE TRANSPORT

GLUCOSE UPTAKE

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBESE-HYPERGLYCEMIC (OB/OB) MICE. Cuendet GS, Loten EG, Jeanrenaud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173

EFFECT OF EXERCISE ON GLUCOSE UPTAKE IN DIABETIC ADOLESCENTS. Dorchy H, Ego F, Baran D, Loeb H *Acta Paediatr Belg* 29: 83-5, Apr-Jun 76 (Eng) DL/77MAR427

CEREBRAL UPTAKE OF GLUCOSE AND OXYGEN IN THE CAT BRAIN AFTER PROLONGED ISCHEMIA. Hossmann KA, Sakaki S, Kimoto K *Stroke* 7: 301-5, May-Jun 76 (Eng) *DL/77MAR531

GLUCOSE, URINARY

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77MAR93

GLUCOSE UTILIZATION

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

GLUCOSTATIC CONTROL

THE ROLE OF INSULIN IN THE GLUCOSTATIC CONTROL OF FOOD INTAKE. Rezek M *Can J Physiol Pharmacol* 54: Oct 76 (Eng) [97] DL/77MAR22

GLYCERALDEHYDE

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A, Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76 (Eng) DL/77MAR75

GLYCEROLKINASE

GLYCEROLKINASE-A REGULATORY ENZYME OF GLUCONEOGENESIS Seitz HJ, Porsche E, Tarnowski W *Acta Biol Med Ger* 35: 141-54, 1976 (Eng) DL/77MAR400

GLYCOGEN

METABOLISM OF GLYCOGEN IN THE SCORPION HETEROMETRUS SCABER (THOR.). Vijayalekshmi NR, Kurup PA *Indian J Exp Biol* 14: 124-6, Mar 76 (Eng) DL/77MAR152

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I-THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

GLYCOGEN, HEPATIC

SIMULATION STUDY OF CONTROL OF HEPATIC GLYCOGEN SYNTHESIS BY GLUCOSE AND INSULIN. El-Refai M, Bergman RN *Am J Physiol* 231: 1608-19, Nov 76 (Eng) DL/77MAR453

GLYCOGENOLYSIS

STIMULATION OF GLYCOGENOLYSIS IN RAT CAUDATE NUCLEUS SLICES BY L-ISOPROPYLNOREPINEPHRINE, DIBUTYRYL CYCLIC AMP AND 2-CHLOROADENOSINE. Wilkening D, Makman MH *J Neurochem* 26: 923-8, May 76 (Eng) *DL/77MAR513

GLYCOLYSIS

REGULATION OF GLYCOLYSIS AND PYRUVATE OXIDATION IN CARDIAC MUSCLE. Randle PJ *Circ Res* 38: i8-15, May 76 (Eng) *DL/77MAR493

GLYCOLYTIC ENZYME

THE SUBUNIT STRUCTURE OF GLYCOLYTIC ENZYMES. Ruth RC, Wold F *Comp Biochem Physiol* [B] 54: 1-6, 1976 (Eng) *DL/77MAR497

GLYCOPROTEIN, SERUM

EFFECT OF INSULIN, TOLBUTAMIDE AND PHENFORMIN ON THE SERUM GLYCOPROTEIN CONCENTRATION IN NORMAL RABBITS. Chempakam B, Kurup PA *Indian J Exp Biol* 14: 117-9, Mar 76 (Eng) DL/77MAR151

GLYCOSURIA, RENAL

[SOME CHARACTERISTICS OF LACTATION IN WOMEN WITH RENAL GLYCOSURIA AND PREDIABETES] Kolodina LN *Akush Ginek* (Mosk) 65-6, Jun 76 (Rus) DL/77MAR454

GONADOTROPIN, HUMAN CHORIONIC

LOCALIZATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) BY IMMUNOHISTOCHEMICAL METHOD IN NORMAL AND PATHOLOGICAL HUMAN PLACENTA. PP. 373-8. Genbacev O, Sulovic V In: Feldman C, et al., ed. *Immunoenzymatic techniques*. Amsterdam, North-Holland, 1976. W3 I35 no.2 1975. (Eng) DL/77MAR188

GRAFT, PANCREATIC

RESTITUTION OF STREPTOZOTOCIN INDUCED DIABETES MELLITUS IN NUDE MICE WITH PANCREATIC GRAFTS FROM THE RAT. Buschard K, Rygaard J *Acta Pathol Microbiol Scand* [C] 84: 221-6, Jun 76 (Eng) DL/77MAR431

GROWTH

PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HORMONE-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-9, Sep 76 (Eng) DL/77MAR42

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

EFFECT OF INHIBITORS OF STEROL BIOSYNTHESIS ON GROWTH AND SEXUALITY OF PYTHIUM AND ZYGORHYNCHUS. Child JJ, Haskins RH *Mycopathologia* 59: 91-3, 24 Sep 76 (Eng) DL/77MAR270

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND

ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Rime S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

GROWTH OF RABBIT AORTIC SMOOTH MUSCLE CELLS IN SERUM FROM PATIENTS WITH JUVENILE DIABETES. Ledet T *Acta Pathol Microbiol Scand* [A] 84: 508-16, Nov 76 (Eng) DL/77MAR430

GROWTH FACTOR, EPIDERMAL

STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

GROWTH HORMONE

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Biull Eksp Biol Med* 52: 1126-8, Sep 76 (Rus) DL/77MAR10

PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HORMONE-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-9, Sep 76 (Eng) DL/77MAR42

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugate T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGinine AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Wills B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna K, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

Diabetes Literature—Keyword Index

HEPATITIS

IVER OF
M MODEL
FERING
e B, Rine
6 (Ger)

SMOOTH
FROM PA-
S. Ledet
18-16, Nov

SIS AND
MICALLY
CT OF
INSULIN
ULTURES
zengurt E
271-8, 22

GROWTH
TION IN
CELLS OF
otov VP,
Med 52

STUDIES
H HOR-
Gluckman
f 5: 545

PLASMA
GH) AND
(IRG)
UTANE
Sugate T,
oyoshima
: 187-93

HUMAN
INSULIN
ON AND
U, Cerani
5 (Eng)

ING THE
ELLS IN
INSULIN
76 (Eng)

AND
SPHATE
GROWTH
August
3: 1029

CEPTOR
TO AR-
SPON-
UCTUA-
ntosh C,
Clin En-
5 (Eng)

HUMAN
N WITH
Reddy
Dec 76

AND
IN-
EPATIC
Rebuzzi
Med 67:

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION. Ceremuzyn-Ski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

ALPHA ADRENERGIC CONTROL OF GROWTH HORMONE IN ADULT MALE RATS. Ruch W, Jaton AL, Bucher B, Barbach P, Doepfner W *Experientia* 32: 529-31, 15 Apr 76 (Eng) *DL/77MAR501

GROWTH HORMONE RELEASE INHIBITION

A NOVEL CYCLIC UNDERCAPEPTIDE, WY-40, 770, WITH PROLONGED GROWTH HORMONE RELEASE INHIBITING ACTIVITY. Sarantakis D, Teichman J, Lien EL, Fenichel RL *Biochem Biophys Res Commun* 73: 336-42, 22 Nov 76 (Eng) DL/77MAR477

GUANOSINE-3,5-MONOPHOSPHATE

[CONTROL OF THE REGENERATION OF SMALL PIECES OF THE PLANARIAN DUGESIA TIGRINA BY CYLIC AMP AND GMP NUCLEOTIDES] Lenique PM *C R Acad Sci (Fr)* (Paris) 283: 1317-9, 8 NOV 76 (Eng) DL/77MAR35

[DETERMINATION OF SERUM AND URINARY CYCLIC AMP AND GMP] Kimura H *Jpn J Clin Med* 34 suppl: 2369-70, 1976 (Jpn) [80] DL/77MAR230

GUAR GUM

GUAR GUM IN DIABETES [LETTER]. Jenkins DJ, Wolever TM, Haworth R, Leeds AR, Hockaday TD *Lancet* 2: 1086-7, 13 Nov 76 (Eng) DL/77MAR238

GYNECOLOGY

[GYNECOLOGIC DISEASES IN THE DIABETIC WOMAN] Rey-Stocker I, Grandguillaume P *Schweiz Med Wochenschr* 106: 1056-9, 31 Jul 76 (Fre) DL/77MAR346

[GYNECOLOGIC DISORDERS IN THE PREVENTION OF JUVENILE DIABETES] Grandguillaume P, Rey I *Soz Praeventivmed* 21: 155-6, Jul-Aug 76 (Fre) DL/77MAR398

HAPLOTYPE

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED

Lancet 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

HAPTOGLOBIN

A SEMIAUTOMATED METHOD FOR THE ESTIMATION OF SERUM HAPTOGLOBIN LEVELS. Shepherd DN, Jonsson A *Biochem Med* 16: 152-6, Oct 76 (Eng) DL/77MAR473

HCG

SEE HUMAN CHORIONIC GONADOTROPIN

HEARING LOSS

HEARING LOSS IN PATIENTS WITH DIALYSIS AND RENAL TRANSPLANTS. Quick CA *Ann Otol Rhinol Laryngol* 85: 776-90, Nov-Dec 76 (Eng) DL/77MAR462

HEART

THE AUTONOMOUS HEART IN DIABETIC AUTONOMIC NEUROPATHY [EDITORIAL]. Vaisrub S *JAMA* 236: 2784, 13 Dec 76 (Eng) DL/77MAR218

HEART FAILURE

HEART FAILURE AND HYPOGLYCEMIA. Colt E *NY State J Med* 76: 2033, Nov 76 (Eng) DL/77MAR293

HEART, ISOLATED PERFUSED RAT

BINDING OF INSULIN AND NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY TO ISOLATED PERFUSED RAT HEART MUSCLE. EVIDENCE FOR TWO SEPARATE BINDING SITES. Meuli C, Froesch ER *Arch Biochem Biophys* 177: 31-8, Nov 76 (Eng) DL/77MAR465

HEAVY METAL

[HISTOTOPOCHEMICAL INVESTIGATIONS ON ELASTIC MEMBRANES OF BLOOD VESSELS WITH SPECIAL REGARD OF DIABETES MELLITUS. IV. HEAVY METALS (AUTHORS TRANSL)] Opitz M, Von Dorsche HH *Acta Histochem (Jena)* 56: 211-4, 1976 (Ger) DL/77MAR423

HEMODIALYSIS

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Nasso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

HEMODYNAMICS

[HEMODYNAMICS, METABOLISM AND FUNCTION OF THE PERFUSED PANCREAS UNDER NORMAL TEMPERATURE] Meyer W, Petersen H *Z Exp Chir* 9: 113-9, 1976 (Ger) DL/77MAR391

HEMOGLOBIN A1C

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R *Diabetes* 25: 1118-22, Dec 76 (Eng) DL/77MAR127

HEMORRHAGIC SHOCK

GLUCOSE AND INSULIN RESPONSES IN SHEEP SUBJECTED TO A SECOND EPISODE OF HEMORRHAGIC SHOCK. Fritz SD, Fitts CT, Colwell JA *Am Surg* 42: 899-907, Dec 76 (Eng) DL/77MAR457

HEPARIN

[INFLUENCE OF HEPARIN ON THE RADIOIMMUNOLOGIC ASSAY OF INSULIN] Schaller K, Harmeyer J, Partale V *Dtsch Tierarztl Wochenschr* 83: 436-8, 5 Oct 76 (Ger) DL/77MAR54

HEPATIC

QUANTITATIVE ASPECTS OF SECRETION AND HEPATIC REMOVAL OF GLUCAGON IN SHEEP. Brockman RP, Manns JG, Bergman EN *Can J Physiol Pharmacol* 54: 666-70, Oct 76 (Eng) DL/77MAR23

EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS. Berdanier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440

SIMULATION STUDY OF CONTROL OF HEPATIC GLYCOGEN SYNTHESIS BY GLUCOSE AND INSULIN. El-Refaei M, Bergman RN *Am J Physiol* 231: 1608-19, Nov 76 (Eng) DL/77MAR453

THE MICROCIRCULATORY HEPATIC UNIT. PP. 425-34. Rappaport AM *Ino Gerok W, Sickinger K, ed. Drugs and the liver*. Stuttgart, Schattauer, 1975. W3 FR446 1973d. (Eng) *DL/77MAR507

HEPATIC CIRCULATION

EFFECT OF GLUCAGON ON HEPATIC CIRCULATION IN THE PIG. Lindberg B, Darle N *Arch Surg* 111: 1379-83, Dec 76 (Eng) DL/77MAR469

HEPATIC CIRRHOSIS

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

[BEHAVIOR OF PLASMA/INSULIN, SOMATOTROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

HEPATIC FAILURE

THE TREATMENT OF FULMINANT HEPATIC FAILURE. Terblanche J *S Afr Med J* 50: 1711, Oct 76 (Eng) DL/77MAR351

HEPATIC GLUCONEOGENESIS

PHYSIOLOGIC SIGNIFICANCE OF GLUCOCORTICOID AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

HEPATITIS

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Iselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

HEPATITIS ANTIGEN

HEPATITIS ANTIGEN

- [HEPATITIS-B-(HBS) ANTIGEN AND ANTI-HBS IN DIABETIC PATIENTS] Thamer G, Hasslacher C, Wahl P, Kommerell B *Dtsch Med Wochenschr* 101: 1692-3, 12 Nov 76 (Ger) DL/77MAR50

HEPATITIS, VIRAL

- PORTAL VENOUS GOODIES AND FULMINANT VIRAL HEPATITIS [EDITORIAL]. Sherlock S *N Engl J Med* 295: 1535-6, 30 Dec 76 (Eng) DL/77MAR269

HEPATOCYTE

- ISOLATED MAMMALIAN HEPATOCYTES IN CULTURE. Jeejeebhoy K, Phillips MJ *Gastroenterology* 71: 1086-96, Dec 76 (Eng) [121] DL/77MAR132

- SOMATOSTATIN INHIBITION OF GLUCAGON-STIMULATED ADENOSINE 3-5-MONOPHOSPHATE ACCUMULATION IN ISOLATED HEPATOCYTES. Oliver JR, Long K, Wagle SR, Allen DO *Proc Soc Exp Biol Med* 153: 367-9, Nov 76 (Eng) DL/77MAR327

HEPATOCYTE NUCLEI

- [COMPARISON OF THE SIZE OF HEPATOCYTE NUCLEI IN DIABETES AND IN SELECTED DIGESTIVE TRACT DISEASES] Danilewicz M, Danilewiczowa M, Mielczarek H, Pruszczyński M, Torzecki Z *Pol Tyg Lek* 31: 1961-2, 15 Nov 76 (Pol) DL/77MAR313

HEPATOSIS

- PREDICTION OF FETAL OUTCOME BY URINARY ESTRADIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHA-FETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

HERMORRHAGIC SHOCK

- INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HERMORRHAGIC SHOCK. Chaudry IH, Sayeed MM, Bauc AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

HEXOSE MONOPHOSPHATE PATHWAY

- SURFACE SULPHYDRYL GROUPS AND HEXOSE MONOPHOSPHATE PATHWAY ACTIVITY IN RESTING HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, Chusid MJ, Wolff SM, McIntyre PA *Br J Haematol* 33: 205-11, Jun 76 (Eng) *DL/77MAR480

HEXOSE MONOPHOSPHATE SHUNT

- EFFECT OF NITRO BLUE TETRAZOLIUM DYE ON THE HEXOSE MONOPHOSPHATE SHUNT ACTIVITY OF HUMAN POLYMORPHONUCLEAR LEUCOCYTES. DeChatelet LR, Shirley PS *Biochem Med* 14: 391-8, Dec 75 (Eng) *DL/77MAR558

HIGH

SEE GROWTH HORMONE

HIPPOCAMPAL

- EVIDENCES FOR A CORRELATION BETWEEN HIPPOCAMPAL RNA AND LEARNING. Izquierdo I *Acta Physiol Lat Am* 25: 324-31, 1975 (Eng) DL/77MAR432

HISTOCHEMISTRY

- FLUORESCENCE HISTOCHEMICAL STUDY OF THE PANCREAS IN THE CAT. Onda M *Gastroenterol Jpn* 11: 246-61, 1976 (Eng) DL/77MAR131

HISTOLOGY

- TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jong HH, van Rijn van Alkemade JW, Wuite TP *In: Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 5941 1975. (Eng) [26] *DL/77MAR509*

HISTOPATHOLOGY

- HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I—THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

- HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROIDINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

- A HISTOPATHOLOGICAL STUDY ON THE ISLETS OF LANGERHANS AND DUCTAL EPITHELIAL METAPLASIA IN ATROPHIC LOBULI OF PANCREAS. Suda K, Komatsu K, Hashimoto K *Acta Pathol Jpn* 26: 561-72, Sep 76 (Eng) DL/77MAR429

HISTOTOPOCHEMICAL

- [HISTOTOPOCHEMICAL INVESTIGATIONS ON ELASTIC MEMBRANES OF BLOOD VESSELS WITH SPECIAL REGARD OF DIABETES MELLITUS. IV. HEAVY METALS (AUTHORS TRANSL.)] Opitz M, Von Dorsche HH *Acta Histochem (Jena)* 56: 211-4, 1976 (Ger) DL/77MAR423

HLA

SEE HUMAN LEUCOCYTE ANTIGEN

HORMONAL CONTRACEPTIVE

- [SIDE EFFECTS AND COMPLICATIONS OF USE OF HORMONAL CONTRACEPTIVES (LITERATURE SURVEY)] Pytel IuA, Zolotarev II, Tsomyk VG, Datuashvili TD *Vopr Okhr Materin Det* 21: 79-81, Aug 76 (Rus) DL/77MAR380

HORMONAL REGULATION

- HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN RELATION TO GLUCONEOGENESIS AND LIPID GENESIS. Titheradge MA, Coore HG *FEBS Lett* 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76

- [INFLUENCE OF CHROMIUM AS A TRACE ELEMENT ON THE HORMONAL REGULATION IN THE RAT. 2. PHYSIOLOGICAL FUNCTION OF CHROMIUM IN CARBOHYDRATE METABOLISM] Djahanschiri H, Brune H Z *Tierphysiol* 36: 201-13, Aug 75 (Ger) *DL/77MAR540

HORMONE

- NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

- HIGH-SENSITIVITY CYTOFLUOROMETRIC QUANTITATION OF LECTIN AND HORMONE BINDING TO SURFACES OF LIVING CELLS. Bohn B *Exp Cell Res* 103: 39-46, Nov 76 (Eng) DL/77MAR69

- RESPONSES OF MAMMARY CELLS TO HORMONES. Banerjee MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

- EFFECT OF ANTECEDENT HORMONE ADMINISTRATION ON LIPOLYSIS IN THE PERFUSED ISOLATED FAT CELL. Solomon SS, Duckworth WC *J Lab Clin Med* 88: 984-94, Dec 76 (Eng) DL/77MAR193

- [INFLUENCE OF FEATURES OF THE ACT OF DELIVERY IN DIABETIC WOMEN ON THE CONCENTRATION OF GLUCOCORTICOID HORMONES IN THE BLOOD AND URINE OF NEWBORNS] Kalinina LM *Akush Ginek (Mosk)* 5: 44-7, May 76 (Rus) DL/77MAR455

- CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lammintausta R, Syvalahti E, Pekkarinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

HORMONE, GROWTH

- [SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Biull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

- PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HORMONE-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-9, Sep 76 (Eng) DL/77MAR42

- COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

- ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerami E *Diabetes Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

- GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

- IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3-5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W J *Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

- EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMIZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Miltrey HR, Wilms B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

Diabetes Literature—Keyword Index

HYPERGLYCEMIA

HYDROCORTISONE

HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

HYDROGEN ION

EVIDENCE AGAINST H⁺ AND K⁺ AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *Ino Betz E*, ed. *Ionic actions on vascular smooth muscle*. Berlin, Springer, 1976. W3 SY732 1976. (Eng) DL/77MAR187

HYDROLYSIS

HYDROLYSIS OF TRI- AND MONOACYLGLYCEROL BY LIPOPROTEIN LIPASE: EVIDENCE FOR A COMMON ACTIVE SITE. Twu JS, Nilsson-Ehle P, Schotz MC *Biochemistry* 15: 1904-9, 4 May 76 (Eng) *DL/77MAR482

HYDROPHOBIC ADSORPTION

THE HYDROPHOBIC ADSORPTION OF CHARGED MOLECULES TO BILAYER MEMBRANES: A TEST OF THE APPLICABILITY OF THE STERN EQUATION. McLaughlin S, Harary H *Biochemistry* 15: 1941-8, 4 May 76 (Eng) *DL/77MAR483

17-HYDROXYCORTICOSTEROID

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

HYDROXYLASE, DOPAMINE BETA

DOPAMINE-BETA-HYDROXYLASE ACTIVITY IN SERUM FOLLOWING ACUTE MYOCARDIAL INFARCTION: AN EVALUATION OF THIS PARAMETER FOR ROUTINE USE AS AN INDEX OF SYMPATHETIC ACTIVITY. Gutteberg T, Borud O, Stromme JH *Clin Chim Acta* 69: 61-6, 17 May 76 (Eng) *DL/77MAR495

HYPERCAPNIA

GLUCOSE CONSUMPTION IN RAT CEREBRAL CORTEX IN NORMOXIA, HYPOXIA AND HYPERCAPNIA. Borgstrom L, Norberg K, Siesjö BK *Acta Physiol Scand* 96: 569-74, Apr 76 (Eng) *DL/77MAR546

HYPERGLUCAGONEMIA

PATHOGENESIS AND CHARACTERIZATION OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. Emmanouel DS, Jaspán JB, Kuku SF, Rubenstein AH, Katz AI, Huen AH *J Clin Invest* 58: 1266-72, Nov 76 (Eng) DL/77MAR177

HYPERGLYCEMIA

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

[EFFECTS OF SOMATOSTATIN ON PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION. Ceremuzynski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Taz WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

ALPHA ADRENERGIC CONTROL OF GROWTH HORMONE IN ADULT MALE RATS. Ruch W, Jaton AL, Bucher B, Marbach P, Doepfner W *Experientia* 32: 529-31, 15 Apr 76 (Eng) *DL/77MAR501

HORMONE INDUCED

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

HORMONE RESPONSE

INFLUENCE OF GLUCOSE INGESTION ON FUEL-HORMONE RESPONSE DURING PROLONGED EXERCISE. Ahlborg G, Felig P *J Appl Physiol* 41: 683-8, Nov 76 (Eng) DL/77MAR167

HORMONE, SEX

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

HOSPITAL

CHARACTERISTICS OF HOSPITALIZATIONS AND DEATH CASES OF DIABETIC PATIENTS IN A GENERAL HOSPITAL. Lender M, Menczel J *Gerontology* 23: 23-30, 1977 (Eng) DL/77MAR135

[CHRONIC GERIATRIC PATIENT IN THE HOSPITAL] Schubert R, Fusgen I *Fortsschr Med* 94: 1651-7, 14 Oct 76 (Ger) DL/77MAR142

HOSPITALIZATION

CHARACTERISTICS OF HOSPITALIZATIONS AND DEATH CASES OF DIABETIC PATIENTS IN A GENERAL HOSPITAL. Lender M, Menczel J *Gerontology* 23: 23-30, 1977 (Eng) DL/77MAR135

HUMAN CHORIONIC GONADOTROPIN

LOCALIZATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) BY IMMUNOHISTOCHEMICAL METHOD IN NORMAL AND PATHOLOGICAL HUMAN PLACENTA. PP. 373-8. Genbacev O, Sulovic V *Ino Feldman C*, et al., ed. *Immunoenzymatic techniques*. Amsterdam, North-Holland, 1976. W3 I35 no.2 1975. (Eng) DL/77MAR188

HUMAN LEUCOCYTE ANTIGEN

GENETIC SUSCEPTIBILITY IN DIABETES MELLITUS: ANALYSIS OF THE HLA ASSOCIATION. Cudworth AG, Woodrow JC *Br Med J* 2: 846-8, 9 Oct 76 (Eng) DL/77MAR14

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerap J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

HUMORAL AUTOIMMUNITY

HUMORAL AUTOIMMUNITY IN DIABETES MELLITUS. Bottazzo GF, Doniach D, Poupard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 55-64, 1976 (Eng) DL/77MAR420

HUNTINGTON CHOREA

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER)] Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

HUNTINGTONS DISEASE

ABNORMAL GLUCOSE TOLERANCE AND ARGININE TOLERANCE TESTS IN HUNTINGTONS DISEASE. Podolsky S, Leopold NA *Gerontology* 23: 55-63, 1977 (Eng) DL/77MAR136

HYALINE MEMBRANE DISEASE

THE VALUE OF AMNIOTIC FLUID LECITHIN/SPHINGOMYELIN DETERMINATION IN PREDICTION OF HYALINE MEMBRANE DISEASE. Lofstrand T, Fex G *Acta Obstet Gynecol Scand* 55: 419-27, 1976 (Eng) DL/77MAR425

HYDROCHLORIDE

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

HYPERINSULINEMIA

TRANSL]] Luyckx A *Diabete Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

THE DEVELOPMENT OF OBESITY, HYPERINSULINEMIA, AND HYPERGLYCEMIA IN OB/OB MICE. Dubuc PU *Metabolism* 25: 1567-74, Dec 76 (Eng) DL/77MAR252

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

EXPERIMENTAL CORONARY OCCLUSION IN CALVES: THE EFFECT OF HYPERGLYCAEMIA ON VENTRICULAR FIBRILLATION THRESHOLD. Egerton WS, Balderson G *Aust NZ J Surg* 46: 92-6, Feb 76 (Eng) *DL/77MAR554

HYPERINSULINEMIA

THE DEVELOPMENT OF OBESITY, HYPERINSULINEMIA, AND HYPERGLYCEMIA IN OB/OB MICE. Dubuc PU *Metabolism* 25: 1567-74, Dec 76 (Eng) DL/77MAR252

HYPERINSULINIC

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *In0 Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189*

HYPERKALEMIA

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

HYPERLATEMIA

PHARMACOLOGICAL AGENTS AND ACUTE EXPERIMENTAL HYPERLATEMIA IN THE DOG [PROCEEDINGS]. Loubatieres AL, Ribes G, Valette G *Br J Pharmacol* 58: 429p, Nov 76 (Eng) DL/77MAR111

HYPERLIPEMIA

[HYPERLIPEMIA: PRACTICAL ATTITUDES] Micheli H *Schweiz Med Wochenschr* 106: 929-36, 3 Jul 76 (Fre) DL/77MAR339

[HYPERLIPEMIA AND DIABETES] Pometta D *Schweiz Med Wochenschr* 106: 1054-5, 31 Jul 76 (Fre) DL/77MAR345

[HYPERTRIGLYCERIDEMIA IN RATS FOLLOWING GLUCOSE INFUSION—AN ANIMAL EXPERIMENT MODEL FOR THE STUDY OF TYPE IV HYPERLIPIDEMIA PATHOGENESIS] Heuck CC *Verh Dtsch Ges Inn Med* 81: 1446-9, 1975 (Ger) *DL/77MAR538

HYPEROSMOLAR

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA—REPORT OF 2 CASES AND STUDIES OF 63 CASES IN JAPANESE LITERATURE] Ibayashi H, Funakoshi A, Wakasugi H, Nakayama K, Kimura Y *Jpn J Clin Med* 34: 2788-99, 10 Sep 76 (Jpn) DL/77MAR223

[HYPEROSMOLAR COMATOSE STATES] Mantz JM, Tempe JD, Jaeger A, Kurtz D *Minerva Med* 67: 3643-60, 14 Nov 76 (Ita) DL/77MAR288

HYPEROSMOLAR NON-KETOTIC DIABETIC COMA IN A JUVENILE. Owusu SK, Anterkyi FS, Shaw-Taylor KE, Konotey-Ahulu FI *Ghana Med J* 14: 241-2, Sep 75 (Eng) DL/77MAR397

HYPEROSMOLAR COMA

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ *Med J Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

HYPERPROLACTINEMIA

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

HYPERTENSION

ANTI-HYPERTENSIVE ACTION, TIME OF ONSET AND EFFECTS ON CARBOHYDRATE METABOLISM OF LABETALOL. Andersson O, Berglund G, Hansson L *Br J Clin Pharmacol* 3: 757-61, Aug 76 (Eng) DL/77MAR4

[DIABETES MELLITUS AND HYPERTENSION] Rames I *Car Lek Cesk* 115: 1238-42, 8 Oct 76 (Cze) DL/77MAR29

DIAZOXIDE, GLIPIZIDE, HYPERTENSION AND HYPOGLYCAEMIA [LETTER]. Farr MJ *Lancet* 2: 1138, 20 Nov 76 (Eng) DL/77MAR242

[THE INCIDENCE OF DIABETES MELLITUS IN OBESITY-ASSOCIATED HYPERTENSION] Erno K, Katalin K *Orv Hetil* 117: 2737-8, 7 Nov 76 (Hun) DL/77MAR301

HYPERTONIC

MECHANISM OF INHIBITION OF GASTRIC ACID SECRETION BY HYPERTONIC SOLUTIONS AND VASOPRESSIN. Limlomwongse L, Nophakoon J, Thithapandha A *Pfuegers Arch* 366: 159-63, 3 Nov 76 (Eng) DL/77MAR309

HYPERTRIGLYCERIDEMIA

[HYPERTRIGLYCERIDEMIA IN RATS FOLLOWING GLUCOSE INFUSION—AN ANIMAL EXPERIMENT MODEL FOR THE STUDY OF TYPE IV HYPERLIPIDEMIA PATHOGENESIS] Heuck CC *Verh Dtsch Ges Inn Med* 81: 1446-9, 1975 (Ger) *DL/77MAR538

HYPERVENTILATION

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

HYPOGLYCEMIA

A STUDY OF THE EFFECTS OF HYPOGLYCEMIA AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VI. SUPPLEMENTARY REPORT ON NONFATAL EVENTS IN PATIENTS TREATED WITH TOLBUTAMIDE. Anonymous *Diabetes* 25: 1129-53, Dec 76 (Eng) DL/77MAR129

CONDITIONED HYPOGLYCEMIA. Woods SC *J Comp Physiol Psychol* 90: 1164-8, Dec 76 (Eng) DL/77MAR182

EVIDENCE AGAINST H& AND K& AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *In0 Betz E, ed. Ionic actions on vascular smooth muscle. Berlin, Springer, 1976. W3 5Y732 1976i. (Eng) DL/77MAR187*

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *In0 Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189*

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

DIAZOXIDE, GLIPIZIDE, HYPERTENSION AND HYPOGLYCAEMIA [LETTER]. Farr MJ *Lancet* 2: 1138, 20 Nov 76 (Eng) DL/77MAR242

HEART FAILURE AND HYPOGLYCEMIA. Colt E *NY State J Med* 76: 2033, Nov 76 (Eng) DL/77MAR293

PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

HYPOGLYCEMIA, LEUCINE SENSITIVE

[LEUCINE-SENSITIVE HYPOGLYCEMIA AND ITS DIET THERAPY] Okoh O, Dallmeier M *Munch Med Wochenschr* 118: 1505-6, 12 Nov 76 (Ger) DL/77MAR266

HYPOGLYCEMIC

CORRELATION OF BLOOD AND BRAIN AMINO ACIDS IN HYPOGLYCEMIC AND NORMOGLYCEMIC RATS. Wapnir RA *Experientia* 32: 1409-11, 15 Nov 76 (Eng) DL/77MAR70

HYPOGLYCEMIC PATIENTS REQUIRE SPECIAL PRECAUTIONS. Paravecchio R, Jarabak JP *Dent Stud* 54: 61, Feb 76 (Eng) DL/77MAR79

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOGLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER)] Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

HYPOGLYCEMIC ACTION

GAS CHROMATOGRAPHIC ANALYSES OF ONION PRINCIPLES AND A STUDY ON

Diabetes Literature—Keyword Index

IMMUNOREACTIVE GLUCAGON

IMMUNOENZYMATIC

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C In: *Immunoenzymatic and radioimmunological studies of insulin secretion*. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189

IMMUNOGENICITY

THE IMMUNOGENICITY OF INSULIN PREPARATIONS. Chance RE, Root MA, Galloway JA *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 185-98, 1976 (Eng) [38] DL/77MAR410

IMMUNOGLOBULIN

[PRELIMINARY OBSERVATIONS ON THE BEHAVIOR OF IMMUNOGLOBULINS IN DIABETICS TREATED BY DIFFERENT METHODS] Bruno A, Innocenti M, Pasquino M, Pugliese F, Zola P *Minerva Med* 67: 3255-60, 20 Oct 76 (Ita) DL/77MAR280

IMMUNOHISTOCHEMISTRY

LOCALIZATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) BY IMMUNOHISTOCHEMICAL METHOD IN NORMAL AND PATHOLOGICAL HUMAN PLACENTA. PP. 373-8. Genbacev O, Sulovic V In: *Immunoenzymatic techniques*. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR188

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Kocli G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

IMMUNOPATHOGENIC

IMMUNOPATHOGENIC MECHANISMS IN TISSUE DAMAGE. Bendixen G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 15-25, 1976 (Eng) DL/77MAR407

IMMUNOREACTIVE

INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS. Helmstaedt V, Feurle GE, Forsmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

IMMUNOREACTIVE GLUCAGON

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNOREACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tsuru S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M *Diabetes* 25: 1018-25, Nov 76 (Eng) DL/77MAR115

THEIR HYPOGLYCEMIC ACTION. Augusti KT *Indian J Exp Biol* 14: 110-2, Mar 76 (Eng) DL/77MAR150

HYPOGLYCEMIC DRUG

[CHANGES IN CARBOHYDRATE METABOLISM AND EFFICIENCY OF HYPOGLYCEMIC DRUGS RELATED TO THE LIGHT DARK CYCLE IN RATS. A STUDY ON STIMULATED DIAPHRAGM (AUTHORS TRANSL)] Sterne J, Pecard F *Diabete Metab* 2: 21-5, Mar 76 (Fre) DL/77MAR110

HYPONATREMIA

CHLORPROPAMIDE-INDUCED

HYPONATREMIA. PETERS K *J Clin Endocrinol Metab* 43: 1085-7, Nov 76 (Eng) DL/77MAR170

HYPOPHYSECTOMY

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Biull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

HYPOPHYSIS

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPIC CELLS OF THE HUMAN HYPOPHYSIS] Legros F, Massant B, Uytendhoeff P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

HYPOTHALAMIC LESION

GLUCOSE PREFERENCE AND CALORIC REGULATION IN WEANLING RATS WITH VENTROMEDIAL AND DORSOMEDIAL HYPOTHALAMIC LESIONS. Bernardis LL, Border JR *J Neurosci Res* 1: 485-93, 1975 (Eng) *DL/77MAR515

HYPOTHALAMIC/PITUITARY/ADRENAL

LETTER: HYPOTHALAMIC/PITUITARY/ADRENAL FUNCTION IN PATIENTS ON CHEMOTHERAPY. Anonymous Lancet *i*: 1238-9, 5 Jun 76 (Eng) *DL/77MAR520

HYPOTHALAMUS

FIBER CONNECTIONS IN THE HYPOTHALAMUS AND SOME AUTONOMIC FUNCTIONS. Ban T *Pharmacol Biochem Behav* 3: 3-13, 1975 (Eng) *DL/77MAR525

HYPOTHYROIDISM

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND COLFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL)] Rumpf KW, Quellroost E, Scheler F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

HYPOTHYROIDISM, MATERNAL

THE EFFECT OF MATERNAL HYPOTHYROIDISM ON MATERNAL AND FETAL TISSUE GLUCOSE-1-14C INCORPORATION IN RATS. Porterfield SP, Hendrich CE *Horm Res* 6: 236-46, 1975 (Eng) *DL/77MAR504

HYPOTHYROIDISM, PRIMARY

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM.

SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

HYPOTONIC AGENT

USE OF GLUCAGON AS THE HYPOTONIC AGENT IN BARIUM ENEMA EXAMINATION. Jerele JJ *J Am Osteopath Assoc* 76: 264-71, Dec 76 (Eng) DL/77MAR186

HYPOXEMIA

EVIDENCE AGAINST H₂ AND K₂ AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK In: *Bez E, ed. Ionic actions on vascular smooth muscle*. Berlin, Springer, 1976. W3 SY732 1976i. (Eng) DL/77MAR187

HYPOXIA

GLUCOSE CONSUMPTION IN RAT CEREBRAL CORTEX IN NORMOXIA, HYPOXIA AND HYPERCAPNIA. Borgstrom L, Norberg K, Siesjö BK *Acta Physiol Scand* 96: 569-74, Apr 76 (Eng) *DL/77MAR546

ICTERUS

[DRUG-INDUCED ICTERUS] Morl M *Fortschr Med* 94: 1934-6, 18 Nov 76 (Ger) DL/77MAR144

IMIPRAMINE HYDROCHLORIDE

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

IMMUNE ETIOLOGY

ISLET CHANGES SUGGESTING A POSSIBLE IMMUNE AETIOLOGY OF HUMAN DIABETES MELLITUS. Gepts W *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 95-106, 1976 (Eng) [124] DL/77MAR422

IMMUNIZED

PLASMA VOLUMES AND ENTRAPMENT OF PLASMA IN TISSUES OF NORMAL AND INSULIN-IMMUNIZED GUINEA PIGS. Wright PH, Williams V *Proc Soc Exp Biol Med* 153: 92-7, Oct 76 (Eng) DL/77MAR324

IMMUNOCHEMICAL

SEPARATION OF THE TWO DOUBLE-CHAIN BOVINE INTERMEDIATES OF THE PROINSULIN-INSULIN CONVERSION I. CHEMICAL, IMMUNOCHEMICAL, CIRCULAR DICHROISM, AND BIOLOGICAL CHARACTERIZATION. Markussen J, Heding LG *Int J Pept Protein Res* 8: 597-606, 1976 (Eng) DL/77MAR156

IMMUNOCYTOCHEMISTRY

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPIC CELLS OF THE HUMAN HYPOPHYSIS] Legros F, Massant B, Uytendhoeff P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

Diabetes Literature—Keyword Index

IMMUNOREACTIVE GLUCAGON

IMMUNOREACTIVE INSULIN

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabetes Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

EFFECT OF DILUTION ON IMMUNOREACTIVE INSULIN ACTIVITY OF HUMAN PLASMA. Sankaran H, Harrington MG Jr *J Med Sci* 145: 359-68, Nov 76 (Eng) DL/77MAR164

IMMUNOREACTIVITY, GLUCAGON

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

IMPLANTATION, INTRAHEPATIC

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

IN SITU

IS PHOSPHOLIPASE D REALLY AN ENZYME A COMPARISON OF IN SITU AND IN VITRO ACTIVITIES. Roughan PG, Slack CR *Biochim Biophys Acta* 431: 86-95, 22 Apr 76 (Eng) *DL/77MAR487

IN VITRO

IN VITRO SYNTHESIS OF AMYLOIDFIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E *Isr J Med Sci* 12: 1137-40, Oct 76 (Eng) DL/77MAR1

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabetes Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hautecouverture M, Buneaux JJ *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhaye M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

[THE EFFECT OF AGE ON THE IN VITRO RESPONSE TO INSULIN IN THE RAT. I. GLUCOSE METABOLISM ON THE DIAPHRAGM (AUTHORS TRANSL)] Gommers A, Dehez-Delhaye M, Jeanjean M *Gerontology* 23: 134-41, 1977 (Fre) DL/77MAR138

IS PHOSPHOLIPASE D REALLY AN ENZYME A COMPARISON OF IN SITU AND IN VITRO ACTIVITIES. Roughan PG, Slack CR *Biochim Biophys Acta* 431: 86-95, 22 Apr 76 (Eng) *DL/77MAR487

MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI EN-

DOTOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS. Marchetti G, Merlo L, Nosedà V, Brusoni B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527

IN VIVO

INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HERMORRHAGIC SHOCK. Chaudry IH, Sayeed MM, Baue AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

STRESS-INDUCED INHIBITION OF TRIGLYCERIDE SECRETION IN VIVO SAND RATS (PSAMMOMYS OBESUS). Robertson RP, Smith PH *Metabolism* 25: 1583-90, Dec 76 (Eng) DL/77MAR254

IN VIVO PLATELET FUNCTION IN DIABETES MELLITUS. Fleischman AI, Bierenbaum ML, Stier A, Somol H, Watson PB *Thromb Res* 9: 467-71, Nov 76 (Eng) DL/77MAR359

METABOLISM OF KETONE BODIES BY OVINE BRAIN IN VIVO. Kammula RG *Am J Physiol* 231: 1490-4, Nov 76 (Eng) DL/77MAR451

MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI ENDOTOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS. Marchetti G, Merlo L, Nosedà V, Brusoni B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527

INDOMETHACIN

[SIDE EFFECTS OF INDOMETHACIN] Ayrolles C, Fournie A *Therapie* 31: 313-24, May-Jun 76 (Fre) DL/77MAR358

INFANT

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1123-8, Dec 76 (Eng) DL/77MAR128

CHILDHOOD ANTECEDENTS OF ADULT OBESITY. DO CHUBBY INFANTS BECOME OBESE ADULTS? Charney E, Goodman HC, McBride M, Lyon B, Pratt R *N Engl J Med* 295: 6-9, 1 Jul 76 (Eng) *DL/77MAR522

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

INFANT, NEWBORN

[METABOLISM IN THE NEWBORN INFANTS OF DIABETIC MOTHERS DURING THE 1ST DAYS OF LIFE] Pribylova H *Cesk Pediatr* 31: 529-31, Oct 76 (Cze) DL/77MAR33

[METABOLIC ACTIVITY OF THE SMALL-FOUR-DATE NEWBORN INFANT] Sann L *Pediatr* 31: 309-13, Apr 76 (Fre) [43] DL/77MAR308

INFARCTION, MYOCARDIAL

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

[MYOCARDIAL INFARCTION IN DIABETICS (AUTHORS TRANSL)] Passa P, Masquet C, Kravjitch A, Brasquer Y, Bouvrain Y *Diabetes Metab* 1: 179-83, Sep 75 (Fre) DL/77MAR99

POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY. Machtey I, Syrkis I, Nissimov MR, Lobel H *J Am Geriatr Soc* 24: 534-7, Dec 76 (Eng) DL/77MAR185

[STUDIES ON CLINICAL PREDICTION OF MYOCARDIAL INFARCTION: QUANTIFICATION OF CORONARY RISK FACTORS (AUTHORS TRANSL)] Kato K *Jpn Circ J* 40: 1041-3, 1055-66, Sep 76 (Jpn) DL/77MAR222

[CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT] Enzi G, Muggeo M, Tiengo A *Minerva Med* 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285

RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION. Ceremuzynski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315

DOPAMINE-BETA-HYDROXYLASE ACTIVITY IN SERUM FOLLOWING ACUTE MYOCARDIAL INFARCTION: AN EVALUATION OF THIS PARAMETER FOR ROUTINE USE AS AN INDEX OF SYMPATHETIC ACTIVITY. Gutteberg T, Borud O, Stromme JH *Clin Chim Acta* 69: 61-6, 17 May 76 (Eng) *DL/77MAR495

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutner RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526

UNRECOGNIZED MYOCARDIAL INFARCTION: FIVE-YEAR INCIDENCE, MORTALITY, AND RISK FACTORS. Medalie JH, Goldbourt U *Ann Intern Med* 84: 526-31, May 76 (Eng) *DL/77MAR552

INFECTION

[MYOCARDITIS AND INSULITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hofmann W, Waldbert R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

INFUSION

INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HERMORRHAGIC SHOCK. Chaudry IH, Sayeed MM, Baue AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENervation TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Trietley GJ, Bernardis LL *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

INFLUENCE OF LACTATE INFUSION ON GLUCOSE AND FFA METABOLISM IN MAN. Abborg G, Hagenfeldt L, Wahren J *Scand J Clin Lab Invest* 36: 193-201, Mar 76 (Eng) *DL/77MAR530

Diabetes Literature—Keyword Index

INSULIN

INFUSION, GLUCOSE

[HYPERTRIGLYCERIDEMIA IN RATS FOLLOWING GLUCOSE INFUSION—AN ANIMAL EXPERIMENT MODEL FOR THE STUDY OF TYPE IV HYPERLIPEMIA PATHOGENESIS] Heuck CC *Verh Dtsch Ges Inn Med* 81: 1446-9, 1975 (Ger) *DL/77MAR538

INFUSION, INSULIN

[TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL.)] Luft D, Schubert WR, Reichenmiller HE *Dtsch Med Wochenschr* 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

INGESTION

INFLUENCE OF GLUCOSE INGESTION ON FUEL-HORMONE RESPONSE DURING PROLONGED EXERCISE. Ahlborg G, Felig P *J Appl Physiol* 41: 683-8, Nov 76 (Eng) DL/77MAR167

INGESTION, FOOD

EFFECT OF FOOD INGESTION ON CERTAIN CLINICALLY IMPORTANT BIOCHEMICAL INVESTIGATIONS. Valame S, Tanksale KG, Sheth UK *J Postgrad Med* 21: 173-6, Oct 75 (Eng) *DL/77MAR514

INJECTION

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jan 76 (Eng) DL/77MAR63

INNERVATION

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNERVATION. Andersen JT, Bradley WE *Diabetes* 25: 1100-5, Dec 76 (Eng) DL/77MAR124

INOSINE

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

INSULIN

IN VITRO SYNTHESIS OF AMYLOID FIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E *Isr J Med Sci* 12: 1137-40, Oct 76 (Eng) DL/77MAR1

STRUCTURE AND FUNCTION OF INSULIN: PREPARATION AND BIOLOGICAL ACTIVITY OF GUINEA PIG DES-B-ASP30, DES-ASN21-INSULIN. Yip CC, Moule ML *Can J Biochem* 54: 866-71, Oct 76 (Eng) DL/77MAR21

THE ROLE OF INSULIN IN THE GLUCOSTATIC CONTROL OF FOOD INTAKE. Rezek M *Can J Physiol Pharmacol* 54: Oct 76 (Eng) [97] DL/77MAR22

INSULIN, GLUCAGON, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS. Helmstaedt V, Feurle GE, Forssmann

WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

CHANGES IN PLASMA AND URINE MAGNESIUM FOLLOWING SUBCUTANEOUS INSULIN. Lindsay R *Curr Med Res Opin* 4: 296-302, 1976 (Eng) DL/77MAR45

[INFLUENCE OF HEPARIN ON THE RADIOIMMUNOLOGIC ASSAY OF INSULIN] Schaller K, Harmeyer J, Partale V *Dtsch Tierärztl Wochenschr* 83: 436-8, 5 Oct 76 (Ger) DL/77MAR54

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

EFFECT OF INSULIN ON GLUCOSE TRANSPORT IN DMBA-INDUCED MAMMARY TUMORS. Harmon JT, Hilf R *Eur J Cancer* 12: 933-4, Nov 76 (Eng) DL/77MAR67

INTERACTING ACTIONS OF INSULIN AND UNESTERIFIED FATTY ACIDS ON LIPOGENIC ENZYMES IN RAT ADIPOCYTES. Sooranna SR, Saggerson ED *FEBS Lett* 69: 144-8, 15 Oct 76 (Eng) DL/77MAR72

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabetes Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabetes Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng) DL/77MAR114

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

[THE EFFECT OF AGE ON THE IN VITRO RESPONSE TO INSULIN IN THE RAT. I. GLUCOSE METABOLISM ON THE DIAPHRAGM (AUTHORS TRANSL.)] Gommers A, Dehez-Delhay M, Jeanpan M *Gerontology* 23: 134-41, 1977 (Fre) DL/77MAR138

PREPARATION OF A CRYSTALLINE A1-(2-NITRO-4-TRIMETHYLAMMONIOPHENYL) DERIVATIVE OF BOVINE INSULIN. Sutton DA, Easter BR, Drewes SE *Hoppe Seylers Z Physiol Chem* 357: 971-6, Jul 76 (Eng) DL/77MAR146

INFLUENCE OF INSULIN ON LYSOSOMAL ACTIVITY AND UREA PRODUCTION IN ISOLATED PARENCHYMAL CELLS FROM RAT LIVER. Grammelvedt R, Berg T *Hoppe Seylers Z Physiol Chem* 357: 977-81, Jul 76 (Eng) DL/77MAR147

PREPARATION OF A CRYSTALLINE TRIS-(N-METHYLPYRIDINIUM)-DERIVATIVE OF BOVINE INSULIN. Drewes SE, Sutton DA *Hoppe Seylers Z Physiol Chem* 357: 1261-6, Sep 76 (Eng) DL/77MAR148

[(AI-BETA-ALANINE) INSULIN] Geiger R, Geisen K, Regitz G, Summ HD *Hoppe Seylers Z Physiol Chem* 357: 1267-70, Sep 76 (Ger) DL/77MAR149

EFFECT OF INSULIN, TOLBUTAMIDE AND PHENFORMIN ON THE SERUM GLYCOPROTEIN CONCENTRATION IN NORMAL RABBITS. Chempakam B, Kurup PA *Indian J Exp Biol* 14: 117-9, Mar 76 (Eng) DL/77MAR151

INSULIN OF INDIAN SHEEP & GOAT PANCREATIC TISSUE-ISOLATION AND CONTENT. Yadava HS, Ali Z *Indian J Exp Biol* 14: 90-4, Mar 76 (Eng) DL/77MAR155

SEPARATION OF THE TWO DOUBLE-CHAIN BOVINE INTERMEDIATES OF THE PROINSULIN-INSULIN CONVERSION I. CHEMICAL, IMMUNOCHEMICAL, CIRCULAR DICHROISM, AND BIOLOGICAL CHARACTERIZATION. Markussen J, Heding LG *Int J Pept Protein Res* 8: 597-606, 1976 (Eng) DL/77MAR156

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chisano JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

INSULIN COMA THERAPY: DECREASE OF PLASMA TRYPTOPHAN IN MAN. Baumann P, M.Gaillard J *J Neural Transm* 39: 309-13, 1976 (Eng) DL/77MAR198

INTRACELLULAR MEMBRANE JUNCTIONS DURING THE EXOCYTOSIS OF INSULIN. Dahl G, Berger W, Meissner HP *J Physiol (Paris)* 72: 703-9, Nov 76 (Eng) DL/77MAR202

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Bessman SP *J Physiol (Paris)* 72: 721-8, Nov 76 (Eng) DL/77MAR204

PHYSIOLOGIC SIGNIFICANCE OF GLUCOCORTICOID AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ *Med J Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuszi A, Altomonte L, Manna R *Minerva Med* 67: 3252-32, 10 Nov 76 (Ita) DL/77MAR287

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JI, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

INSULIN ACTION

- DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR.** Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322
- TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN.** Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323
- PLASMA VOLUMES AND ENTRAPMENT OF PLASMA IN TISSUES OF NORMAL AND INSULIN-IMMUNIZED GUINEA PIGS.** Wright PH, Williams V *Proc Soc Exp Biol Med* 153: 92-7, Oct 76 (Eng) DL/77MAR324
- GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY.** Emas S, Svensson SO, Dörner M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335
- INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS.** Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360
- INSULIN-ANTI-INSULIN COMPLEXES.** Folling I *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 199-209, 1976 (Eng) DL/77MAR411
- CLINICAL SIGNIFICANCE OF ANTI-INSULIN-ANTIBODIES.** Andersen OO *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 231-40, 1976 (Eng) DL/77MAR413
- THE INFLUENCE OF INSULIN AND INSULIN ANTIBODIES ON THE GLOMERULAR STRUCTURE.** Wehner H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 241-50, 1976 (Eng) DL/77MAR414
- [IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL.)]** Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424
- EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS.** Berdanier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440
- HOW MUCH INSULIN.** Maclaren NK, Cornblath M *Am J Dis Child* 130: 1307-8, Dec 76 (Eng) DL/77MAR442
- ORNITHINE DECARBOXYLASE IN RAT SMALL INTESTINE: STIMULATION WITH FOOD OR INSULIN.** Maudsley DV, Leif J, Kobayashi Y *Am J Physiol* 231: 1557-61, Nov 76 (Eng) DL/77MAR452
- SIMULATION STUDY OF CONTROL OF HEPATIC GLYCOGEN SYNTHESIS BY GLUCOSE AND INSULIN.** El-Refai M, Bergman RN *Am J Physiol* 231: 1608-19, Nov 76 (Eng) DL/77MAR453
- [PLASMATIC LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL.)]** Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *Am J Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458
- STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS.** Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

INSULIN ACTION

- EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION.** Olefsky JM *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181
- ACTION OF INSULIN AND CELL CALCIUM: EFFECT OF IONOPHORE A23187.** Grinstein S, Erlj D *J Membr Biol* 29: 313-28, 29 Nov 76 (Eng) DL/77MAR214
- INSULIN ADMINISTRATION**
- [CHANGES IN FREE FATTY ACID METABOLISM IN RABBITS SUBJECTED TO PROLONGED INSULIN ADMINISTRATION]** Marquie G *C R Acad Sci [D] (Paris)* 283: 519-21, 20 Sep 76 (Fre) DL/77MAR39
- POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY.** Machtey I, Syrkis I, Nissimov MR, Lobel H *J Am Geriatr Soc* 24: 534-7, Dec 76 (Eng) DL/77MAR185

INSULIN ANTIBODY

- [RELATIONSHIP BETWEEN THE COURSE OF DIABETES MELLITUS IN CHILDREN AND INDICES OF COMPLEMENT AND INSULIN ANTIBODY TITERS]** Dreval AV, Zhukovskii MA, Shcherbacheva LN, Mikhailova VS *Vopr Okhr Materin Det* 21: 12-7, Feb 76 (Rus) DL/77MAR370
- HIGH AND LOW AFFINITY INSULIN ANTIBODIES.** Kerp L, Kasemir H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 211-22, 1976 (Eng) DL/77MAR412
- THE INFLUENCE OF INSULIN AND INSULIN ANTIBODIES ON THE GLOMERULAR STRUCTURE.** Wehner H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 241-50, 1976 (Eng) DL/77MAR414

INSULIN BINDING

- [IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPIC CELLS OF THE HUMAN HYPOPHYSIS]** Legros F, Massant B, Uytendhoe P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37
- EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION.** Olefsky JM *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181
- INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING.** Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195
- BINDING OF INSULIN AND NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY TO ISOLATED PERFUSED RAT HEART MUSCLE. EVIDENCE FOR TWO SEPARATE BINDING SITES.** Meuli C, Froesch ER *Arch Biochem Biophys* 177: 31-8, Nov 76 (Eng) DL/77MAR465

INSULIN, BLOOD

- [CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS]** Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

INSULIN DEPENDENT DIABETES

- [SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATICTOMIZED PATIENTS (AUTHORS TRANSL.)]** Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

INSULIN-GLUCAGON RATIO

- CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS.** Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

INSULIN, IMMUNOREACTIVE

- EFFECT OF DILUTION ON IMMUNOREACTIVE INSULIN ACTIVITY OF HUMAN PLASMA.** Sankaran H, Harrington MG Jr *J Med Sci* 145: 359-68, Nov 76 (Eng) DL/77MAR164
- STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH.** Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

INSULIN INDEPENDENT

- RAPID ONSET OF PROLIFERATIVE RETINOPATHY IN YOUNG INSULIN-INDEPENDENT DIABETICS.** Steel JM, Shenfield GM, Duncan LJ *Br Med J* 2: 852, 9 Oct 76 (Eng) DL/77MAR15

INSULIN-INDUCED

- TREATMENT OF INSULIN-INDUCED LIPOATROPHY.** Hulst SG *Diabetes* 25: 1052-4, Nov 76 (Eng) DL/77MAR119
- INSULIN INDUCED INSULITIS.** Kloppel G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 107-21, 1976 (Eng) DL/77MAR403

INSULIN INFUSION

- [TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL.)]** Luft D, Schubert WR, Reichenmiller HE *Dtsch Med Wochenschr* 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

INSULIN, INTRAVENOUS

- ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERTHYCAEMIA.** Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

INSULIN-LIKE

- IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA.** Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 76 (Eng) DL/77MAR87

INSULIN-LIKE ACTIVITY, NONSUPPRESSIBLE

- BINDING OF INSULIN AND NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY TO ISOLATED PERFUSED RAT HEART MUSCLE. EVIDENCE FOR TWO SEPARATE BINDING**

Diabetes Literature—Keyword Index

INSULIN SECRETION

INSULIN RESISTANT

CHARACTERIZATION OF ANTIBODIES TO THE INSULIN RECEPTOR: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. Flier JS, Kahn CR, Jarrett DB, Roth J *J Clin Invest* 58: 1442-9, Dec 76 (Eng) DL/77MAR180

INSULIN RESPONDER

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

INSULIN RESPONSE

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhay M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195

GLUCOSE AND INSULIN RESPONSES IN SHEEP SUBJECTED TO A SECOND EPISODE OF HEMORRHAGIC SHOCK. Fritz SD, Fitts CT, Colwell JA *Ann Surg* 42: 899-907, Dec 76 (Eng) DL/77MAR457

INSULIN RESPONSE, EARLY

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandridona G, Di Campo-Rougerie C, Mahmoud F *Diabete Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

INSULIN SECRETION

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaise WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

[EFFECT OF MINERAL WATER ON THE SECRETION OF INSULIN IN AN ACUTE EXPERIMENT] Horni J, Vodza J *Fysiatr Reumatol Vestn* 54: 236-42, Oct 76 (Cze) DL/77MAR145

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam,*

SITES. Meuli C, Froesch ER *Arch Biochem Biophys* 177: 31-8, Nov 76 (Eng) DL/77MAR465

INSULIN, MONOCOMPONENT

[EXPERIENCES WITH MONOCOMPONENT INSULIN] Fagerberg SE, Gamstedt A *Lakartidningen* 73: 4097-9, 17 Nov 76 (Swe) DL/77MAR236

INSULIN, PLASMA

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabete Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

PLASMA INSULIN LEVELS IN TELEOSTS DETERMINED BY A CHARCOAL-SEPARATION RADIOIMMUNOASSAY TECHNIQUE. Thorpe A, Ince BW *Gen Comp Endocrinol* 30: 332-9, Nov 76 (Eng) DL/77MAR134

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

INSULIN PREPARATION

[PURITY AND ANTIGENICITY OF THE NEW INSULIN PREPARATIONS] Fankhauser S *Schweiz Med Wochenschr* 106: 1218-25, 4 Sep 76 (Ger) DL/77MAR347

THE IMMUNOGENICITY OF INSULIN PREPARATIONS. Chance RE, Root MA, Galoway JA *Acta Endocrinol [Suppl]* (Kbh) 83 SUPPL 205: 185-98, 1976 (Eng) [38] DL/77MAR410

INSULIN RECEPTOR

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL)] Freychet P *Diabete Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77MAR86

THE INSULIN RECEPTOR: ITS ROLE IN INSULIN RESISTANCE OF OBESITY AND DIABETES. Olefsky JM *Diabetes* 25: 1154-62, Dec 76 (Eng) [83] DL/77MAR130

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gordon P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBESE HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

CHARACTERIZATION OF ANTIBODIES TO THE INSULIN RECEPTOR: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. Flier JS, Kahn CR, Jarrett DB, Roth J *J Clin Invest* 58: 1442-9, Dec 76 (Eng) DL/77MAR180

EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION. Olefsky JM *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

INSULIN RELEASE

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Schlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A, Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76 (Eng) DL/77MAR75

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

REGULATION BY GLUCOSE AND CYCLIC NUCLEOTIDES OF THE GLUCAGON AND INSULIN RELEASE INDUCED BY AMINO ACIDS. Jarrouse C, Rosselin G *Diabete Metab* 1: 135-42, Sep 75 (Eng) DL/77MAR95

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

POTASSIUM IONS AND INSULIN RELEASE. Henquin JC, Lambert AE *J Physiol (Paris)* 72: 747-56, Nov 76 (Eng) DL/77MAR206

AN APPROACH TO A MOLECULAR UNDERSTANDING OF EXOCYTOTIC INSULIN RELEASE. Lazarus NR, Davis B, O'Connor KJ *J Physiol (Paris)* 72: 787-94, Nov 76 (Eng) DL/77MAR209

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Schlin J, Taljedal IB *Pfuegers Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

INSULIN RESISTANCE

INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HERMORRHAGIC SHOCK. Chaudry IH, Sayeed MM, Baue AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

THE INSULIN RECEPTOR: ITS ROLE IN INSULIN RESISTANCE OF OBESITY AND DIABETES. Olefsky JM *Diabetes* 25: 1154-62, Dec 76 (Eng) [83] DL/77MAR130

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

INSULIN SENSITIVITY

North-Holland, 1976. W3 I35 no.2 1975. (Eng)
DL/77MAR189

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

INSULIN SECRETION BY HUMAN PANCREAS CULTURED FOR ONE YEAR. Hollande E, Giron BJ, Rey F, Dutrillaux MC *J Physiol (Paris)* 72: 815-32, Nov 76 (Eng) DL/77MAR212

CONNECTING (C)-PEPTIDE--A SPIN-OFF OF INSULIN SECRETION [EDITORIAL]. Vaisrub S *JAMA* 236: 2888, 20 Dec 76 (Eng) DL/77MAR220

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijk B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng) DL/77MAR433

INSULIN SENSITIVITY

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBSE HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

INSULIN, SERUM

[DETERMINATION OF SERUM INSULIN (AND CPR)] Nakagawa S *Jpn J Clin Med* 34 suppl: 2281-9, 1976 (Jpn) [127] DL/77MAR228

INSULIN THERAPY

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ *Med J Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

INSULIN-TREATED

STOMACH MOTILITY IN INSULIN-TREATED SHEEP. Ali TM, Nicholsson T, Singleton AG *Q J Exp Physiol* 61: 321-9, Oct 76 (Eng) DL/77MAR331

INSULINOMA

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JJ, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

INSULITIS

[MYOCARDITIS AND INSULITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hofmann W, Waldherr R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

INSULIN INDUCED INSULITIS. Kloppel G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 107-21, 1976 (Eng) DL/77MAR403

VIRUS INDUCED INSULITIS IN EXPERIMENTAL ANIMAL MODELS. Craighead JE *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 123-8, 1976 (Eng) DL/77MAR404

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

INTERMEDIATE

SEPARATION OF THE TWO DOUBLE-CHAIN BOVINE INTERMEDIATES OF THE PROINSULIN-INSULIN CONVERSION I. CHEMICAL, IMMUNOCHEMICAL, CIRCULAR DICHROISM, AND BIOLOGICAL CHARACTERIZATION. Markussen J, Heding LG *Int J Pept Protein Res* 8: 597-606, 1976 (Eng) DL/77MAR156

INTESTINE, SMALL

SMALL INTESTINAL TRANSIT IN DIABETICS. Scarpello JH, Greaves M, Sladen GE *Br Med J* 72: 1225-6, 20 Nov 76 (Eng) DL/77MAR20

ORNITHINE DECARBOXYLASE IN RAT SMALL INTESTINE: STIMULATION WITH FOOD OR INSULIN. Maudsley DV, Leif J, Kobayashi Y *Am J Physiol* 231: 1557-61, Nov 76 (Eng) DL/77MAR452

SODIUM PUMPS AND GALACTOSE TRANSFER IN THE SHORT-CIRCUITED SMALL INTESTINE. Ude JF, Barry RJ *Experientia* 32: 188-90, 15 Feb 76 (Eng) *DL/77MAR500

INTRACELLULAR

DIETARY CONTROL OF INTRACELLULAR DISTRIBUTION OF RAT LIVER FUMARASE. Nakashima K, Takeda M, Tuboi S *Biochem Biophys Res Commun* 72: 1562-9, 18 Oct 76 (Eng) DL/77MAR474

INTRACELLULAR ENZYME

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerman HK, Kivirikko KI *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

INTRACELLULAR MEMBRANE

INTRACELLULAR MEMBRANE JUNCTIONS DURING THE EXOCYTOSIS OF INSULIN. Dahl G, Berger W, Meissner HP *J Physiol (Paris)* 72: 703-9, Nov 76 (Eng) DL/77MAR202

INTRAHEPATIC TRANSPLANTATION

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

INTRAPORTAL-ISLET-TRANSPLANTED

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

INTRAVENOUS

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

INTRAVENOUS FLUID THERAPY DURING PROLONGED SURGERY. Foster PA *S Afr Med J* 50: 1659-62, Oct 76 (Eng) DL/77MAR348

INTRAVENOUS ADMINISTRATION

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

INTRAVENOUS GLUCAGON

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

INTRAVENOUS GLUCOSE

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

INTRAVENOUS INSULIN

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

INTRAVENOUS NUTRITION

THE ROLE OF INTRAVENOUS NUTRITION IN THE MANAGEMENT OF ACUTE RENAL FAILURE. Lee HA *S Afr Med J* 50: 1703-5, Oct 76 (Eng) DL/77MAR350

INTUSSUSCEPTION

GLUCAGON-AIDED REDUCTION OF INTUSSUSCEPTION. Fisher JK, Germann DR *Radiology* 122: 197-8, Jan 77 (Eng) DL/77MAR332

IONOPHORE A23187

ACTION OF INSULIN AND CELL CALCIUM: EFFECT OF IONOPHORE A23187. Grinstein S, Erlj D *J Membr Biol* 29: 313-28, 29 Nov 76 (Eng) DL/77MAR214

ISCHEMIA

PROTEIN SYNTHESIS IN CELL-FREE SYSTEMS FROM TOTALLY ISCHEMIC RAT MYOCARDIUM. Hinterberger U, Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 7: 341-7, 1975 (Eng) *DL/77MAR529

CEREBRAL UPTAKE OF GLUCOSE AND OXYGEN IN THE CAT BRAIN AFTER PROLONGED ISCHEMIA. Hossman KA, Sakaki S, Kimoto K *Stroke* 7: 301-5, May-Jun 76 (Eng) *DL/77MAR531

ISLET

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN

Diabetes Literature—Keyword Index

JUVENILE DIABETES

STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A, Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76 (Eng) DL/77MAR75

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1123-8, Dec 76 (Eng) DL/77MAR128

PREPARATION AND CHARACTERIZATION OF PLASMA MEMBRANE-ENRICHED FRACTIONS FROM RAT PANCREATIC ISLETS. Lernmark A, Nathans A, Steiner DF *J Cell Biol* 71: 606-23, Nov 76 (Eng) DL/77MAR168

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

PHOSPHORYLATION REACTIONS IN ISLETS OF LANGERHANS. Muller WA, Amherdt ML, Vachon AC, Renold AE *J Physiol (Paris)* 72: 711-20, Nov 76 (Eng) DL/77MAR203

STUDIES ON THE FUNCTION OF PANCREATIC ISLET CELL MEMBRANES. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *J Physiol (Paris)* 72: 729-46, Nov 76 (Eng) DL/77MAR205

ELECTRICAL CHARACTERISTICS OF THE BETA-CELLS IN PANCREATIC ISLETS. Meissner HP *J Physiol (Paris)* 72: 737-67, Nov 76 (Eng) DL/77MAR207

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *Pfuegers Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER). Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS. Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

PASSIVE ENHANCEMENT OF ISOLATED PANCREATIC ISLET ALLOGRAFTS. Finch DR, Morris PJ *Transplantation* 22: 508-12, Nov 76 (Eng) DL/77MAR362

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A

Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

TISSUE CULTURE OF ISOLATED PANCREATIC ISLETS. Andersson A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 283-94, 1976 (Eng) [58] DL/77MAR417

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

ISLET CHANGES SUGGESTING A POSSIBLE IMMUNE AETIOLOGY OF HUMAN DIABETES MELLITUS. Gepts W *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 95-106, 1976 (Eng) [124] DL/77MAR422

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL.)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

A HISTOPATHOLOGICAL STUDY ON THE ISLETS OF LANGERHANS AND DUCTAL EPITHELIAL METAPLASIA IN ATROPHIC LOBULI OF PANCREAS. Suda K, Komatsu K, Hashimoto K *Acta Pathol Jpn* 26: 561-72, Sep 76 (Eng) DL/77MAR429

ISLET CELL

PANCREATIC ISLET-CELL AUTOIMMUNITY [LETTER]. Del Prete GF, Betterle C, Bersani G, Romano M, Tiengo A *Lancet* 2: 1090, 13 Nov 76 (Eng) DL/77MAR239

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

REGENERATION OF ISLET CELLS. Hellerstrom C, Andersson A, Gunnarsson R *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 145-60, 1976 (Eng) [73] DL/77MAR406

ISLET CELL CARCINOMA

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR38

ISLET FUNCTION

CALCIUM ANTAGONISTS AND ISLET FUNCTION. VIII. THE EFFECT OF MAGNESIUM. Malaissé WJ, Devis G, Herchuelz A, Sener A, Somers G *Diabetes Metab* 2: 1-4, Mar 76 (Eng) DL/77MAR107

ISLET OF LANGERHANS

NON-SATURABLE-CO-OPERATIVE BINDING OF TOLBUTAMIDE TO ISOLATED ISLETS OF LANGERHANS [PROCEEDINGS]. Alric R, Lignon F, Loubatieres AL, Manteghetti M, Puech R *Br J Pharmacol* 58: 450p, Nov 76 (Eng) DL/77MAR12

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS. 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Bessman SP *J Physiol (Paris)* 72: 721-8, Nov 76 (Eng) DL/77MAR204

ISLET PRESERVATION

ISOLATION AND PRESERVATION OF ISLETS FROM THE MOUSE, RAT, GUINEA-PIG AND HUMAN PANCREAS. Ferguson J, Allsopp RH, Taylor RM, Johnston ID *Br J Surg* 63: 767-73, Oct 76 (Eng) DL/77MAR13

ISLET TISSUE

EFFECT OF ALLOXAN ON ISLET TISSUE PERMEABILITY: PROTECTION AND REVERSAL BY DITHIOLS. Watkins D, Cooperstein SJ *J Pharmacol Exp Ther* 199: 575-82, Dec 76 (Eng) DL/77MAR201

ISLET TRANSPLANTATION

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

L-ISOPROPYLNOREPINEPHRINE

STIMULATION OF GLYCOGENOLYSIS IN RAT CAUDATE NUCLEUS SLICES BY L-ISOPROPYLNOREPINEPHRINE, DIBUTYRYL CYCLIC AMP AND 2-CHLOROADENOSINE. Wilkening D, Makman MH *J Neurochem* 26: 923-8, May 76 (Eng) *DL/77MAR513

ISOPROTERENOL INDUCED

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutner RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526

ISOTOPE

ISOTOPE-DERIVATIVE MEASUREMENTS OF PLASMA NOREPINEPHRINE AND EPINEPHRINE IN MAN. Cryer PE *Diabetes* 25: 1071-82, Nov 76 (Eng) [52] DL/77MAR122

JAMAICAN

THE BIOCHEMICAL BASIS OF JAMAICAN AKEE POISONING. Billington D, Osmundsen H, Sherratt HS *N Engl J Med* 295: 1482, 23 Dec 76 (Eng) DL/77MAR267

JAPANESE

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA—REPORT OF 2 CASES AND STUDIES OF 63 CASES IN JAPANESE LITERATURE] Ibayashi H, Funakoshi A, Wakasugi H, Nakayama K, Kimura Y *Jpn J Clin Med* 34: 2788-99, 10 Sep 76 (Jpn) DL/77MAR223

JUVENILE

[CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT] Enzi G, Muggeo M, Tiengo A *Minerva Med* 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285

HYPEROSMOLAR NON-KETOTIC DIABETIC COMA IN A JUVENILE. Owusu SK, Anterkyi FS, Shaw-Taylor KE, Konotey-Ahulu FI *Ghana Med J* 14: 241-2, Sep 75 (Eng) DL/77MAR397

JUVENILE DIABETES

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH

Diabetes Literature—Keyword Index

JUVENILE-ONSET DIABETES

OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabetes Metab* 1: 211-20, Dec 73 (Eng) DL/77MAR103

[DIET THERAPY OF DIABETES MELLITUS (WITHOUT REFERENCE TO JUVENILE DIABETES)] Sauer H, Nassauer L *Internist (Berlin)* 17: 502-10, Oct 76 (Ger) [48] DL/77MAR163

OUTPATIENT MANAGEMENT OF THE JUVENILE DIABETIC. Kennell C *Pediatr Nurs* 2: 19-20, 23, Nov-Dec 76 (Eng) DL/77MAR305

[GYNECOLOGIC DISORDERS IN THE PREVENTION OF JUVENILE DIABETES] Grandguillaume P, Rey I *Soz Praeventivmed* 21: 155-6, Jul-Aug 76 (Fre) DL/77MAR398

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

GROWTH OF RABBIT AORTIC SMOOTH MUSCLE CELLS IN SERUM FROM PATIENTS WITH JUVENILE DIABETES. Ledet T *Acta Pathol Microbiol Scand [A]* 84: 508-16, Nov 76 (Eng) DL/77MAR430

JUVENILE-ONSET DIABETES

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

KETOACIDOSIS

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ *Med J Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

KETOACIDOSIS, VIRAL

REYES SYNDROME AND VIRAL KETOACIDOSIS [LETTER]. Aiyathurai JE *Lancet* 2: 1253, 4 Dec 76 (Eng) DL/77MAR246

KETOACIDOTIC COMA

CURRENT TRENDS IN THE MANAGEMENT OF DIABETIC KETO-ACIDOTIC COMA. Vinik AI *S Afr Med J* 50: 1693-4, Oct 76 (Eng) DL/77MAR349

KETONE BODY

METABOLISM OF KETONE BODIES BY OVINE BRAIN IN VIVO. Kammula RG *Am J Physiol* 231: 1490-4, Nov 76 (Eng) DL/77MAR451

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

17-KETOSTEROID

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS

AND 17-KETOSTEROIDS] Lukaszewska J, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

KIDNEY

SUPPRESSION OF RENIN SECRETION IN THE ISOLATED RAT KIDNEY BY CYCLOHEXIMIDE. Vandongen R *Eur J Pharmacol* 40: 179-81, Nov 76 (Eng) DL/77MAR68

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerblom HK, Kivirikko KI *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

THE ROLE OF THE KIDNEY IN THE METABOLISM OF PLASMA PROTEINS. PP. 392-405. Strober W, Waldmann TA In: *Giovannetti S, et al., ed. Sixth international congress of nephrology*. Basel, Karger, 1976. W3 IN446 1975a. (Eng) [27] DL/77MAR191

KIDNEY DISEASE

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Naso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

KIDNEY PUNCTURE

[TRANSVENOUS KIDNEY PUNCTURE. NEW PROCEDURE FOR WITHDRAWAL OF KIDNEY TISSUE] Mathias K, Rohrbach R, Strecker EP, Kauffmann G *Fortschr Med* 94: 1700-4, 21 Oct 76 (Ger) DL/77MAR143

KIDNEY TRANSPLANTATION

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Sinzinger H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R *Wien Med Wochenschr* 125: 611-4, 17 Oct 75 (Ger) *DL/77MAR536

KIMMELSTIEL WILSON SYNDROME

[THERAPY OF DIABETIC GLOMERULOSCLEROSIS (KIMMELSTIEL-WILSON SYNDROME)] Kuhlmann H *Dtsch Med Wochenschr* 101: 1769-72, 26 Nov 76 (Ger) DL/77MAR53

KINASE, PYRUVATE

UV DIFFERENCE SPECTROSCOPIC STUDIES OF THE INTERACTION OF ALLOSTERIC LIGANDS AND NEUROSPORA PYRUVATE KINASE. O'Brien MD, Kapoor M *FEBS Lett* 58: 366-9, 15 Oct 75 (Eng) *DL/77MAR502

KINETICS

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandirana G, Di Campo-Rougerie C, Mahmoud F *Diabete Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

LABELING

QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE. Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

LABELALOL

ANTI-HYPERTENSIVE ACTION, TIME OF ONSET AND EFFECTS ON CARBOHYDRATE METABOLISM OF LABELALOL. Anderson O, Berglund G, Hansson L *Br J Clin Pharmacol* 3: 757-61, Aug 76 (Eng) DL/77MAR4

LABORATORY

LABORATORY EVALUATION OF RENAL FUNCTION. Greenhill A, Gruskin AB *Pediatr Clin North Am* 23: 661-79, Nov 76 (Eng) DL/77MAR304

LABORATORY DIAGNOSIS

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

LACTATE

INFLUENCE OF LACTATE INFUSION ON GLUCOSE AND FFA METABOLISM IN MAN. Ahlborg G, Hagenfeldt L, Wahren J *Scand J Clin Lab Invest* 36: 193-201, Mar 76 (Eng) *DL/77MAR530

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

LACTATION

[SOME CHARACTERISTICS OF LACTATION IN WOMEN WITH RENAL GLYCOSURIA AND PREDIABETES] Kolodina LN *Aksh Ginekol (Mosk)* 65-6, Jun 76 (Rus) DL/77MAR454

LACTIC ACIDOSIS

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, D'Amico P, Pesant P, Matte R *Union Med Can* 105: 1810-4, Dec 76 (Fr) DL/77MAR364

LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochem Med* 14: 355-67, Dec 75 (Eng) *DL/77MAR557

LACTOGEN, PLACENTAL

PREDICTION OF FETAL OUTCOME BY URINARY ESTRIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHAFETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

LANGERHANS HYPOGLYCEMIC ADENOMA

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER)] Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fr) DL/77MAR311

Diabetes Literature—Keyword Index

LARYNX

[PHLEGMON OF THE LARYNX IN A PATIENT WITH DIABETES COMPLICATED BY MEDIASTINITIS] Khasanov SA *Zh Ushn Nos Gorl Bolezni* 102-3, Sep-Oct 76 (Rus) DL/77MAR396

LASER

COMPLICATIONS OF ARGON LASER RETINAL PHOTOCOAGULATION: A FIVE-YEAR STUDY. Little HL *Int Ophthalmol Clin* 16: 145-59, Winter 76 (Eng) DL/77MAR158

RUBY LASER PHOTOCOAGULATION OF PROLIFERATING DIABETIC RETINOPATHY: FIFTH-YEAR FOLLOWUP. Aiello LM, Briones JC *Int Ophthalmol Clin* 16: 15-27, Winter 76 (Eng) DL/77MAR159

ARGON LASER PHOTOCOAGULATION OF PROLIFERATING DIABETIC RETINOPATHY. Little HL *Int Ophthalmol Clin* 16: 79-103, Winter 76 (Eng) DL/77MAR161

[PRELIMINARY EXPERIENCES IN THE TREATMENT OF RETINAL DISEASES WITH ARGON LASER] Pecoldowa K, Kaluzny J *Klin Oczna* 46: 1305-11, Nov 76 (Pol) DL/77MAR234

TECHNIQUES OF ARGON LASER PHOTOCOAGULATION OF DIABETIC DISK NEW VESSELS. Little HL, Zweng HC, Jack RL, Vassiliadis A *Am J Ophthalmol* 82: 675-83, Nov 76 (Eng) DL/77MAR447

LEAD TREATMENT

EFFECTS OF SUBSACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacaw S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

LEARNING

EVIDENCES FOR A CORRELATION BETWEEN HIPPOCAMPAL RNA AND LEARNING. Izquierdo I *Acta Physiol Lat Am* 25: 324-31, 1975 (Eng) DL/77MAR432

LECITHIN-SPHINGOMYELIN

FETAL BIPARIETAL DIAMETER AS A PREDICTOR OF A MATURE LECITHIN/SPHINGOMYELIN RATIO. Goldstein P, Gershenson D, Hobbins JC *Obstet Gynecol* 48: 667-9, Dec 76 (Eng) DL/77MAR296

THE VALUE OF AMNIOTIC FLUID LECITHIN/SPHINGOMYELIN DETERMINATION IN PREDICTION OF HYALINE MEMBRANE DISEASE. Lofstrand T, Fex G *Acta Obstet Gynecol Scand* 55: 419-27, 1976 (Eng) DL/77MAR425

LECTIN

HIGH-SENSITIVITY CYTOFLUOROMETRIC QUANTITATION OF LECTIN AND HORMONE BINDING TO SURFACES OF LIVING CELLS. Bohn B *Exp Cell Res* 103: 39-46, Nov 76 (Eng) DL/77MAR69

LEUCINE SENSITIVE HYPOGLYCEMIA

[LEUCINE-SENSITIVE HYPOGLYCEMIA AND ITS DIET THERAPY] Okoh O, Dallmeier M *Munch Med Wochenschr* 118: 1505-6, 12 Nov 76 (Ger) DL/77MAR266

LEUKEMIA

EPIDEMIOLOGY OF DISEASES IN ADULT MALES WITH LEUKEMIA. Gibson R, Graham S, Lilienfeld A, Schuman L, Levin M, Swanson M *J Natl Cancer Inst* 56: 891-8, May 76 (Eng) DL/77MAR216

LEUKOCYTE

SURFACE SULPHYDRYL GROUPS AND PHAGOCYTOSIS-ASSOCIATED OXIDATIVE METABOLIC CHANGES IN HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, McIntyre PA *Br J Haematol* 33: 189-204, Jun 76 (Eng) *DL/77MAR479

SURFACE SULPHYDRYL GROUPS AND HEXOSE MONOPHOSPHATE PATHWAY ACTIVITY IN RESTING HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, Chusid MJ, Wolff SM, McIntyre PA *Br J Haematol* 33: 205-11, Jun 76 (Eng) *DL/77MAR480

EFFECT OF NITRO BLUE TETRAZOLIUM DYE ON THE HEXOSE MONOPHOSPHATE SHUNT ACTIVITY OF HUMAN POLYMORPHONUCLEAR LEUCOCYTES. DeChatelet LR, Shirley PS *Biochem Med* 14: 391-8, Dec 75 (Eng) *DL/77MAR558

LEUKOCYTE-MIGRATION INHIBITION

LEUKOCYTE-MIGRATION INHIBITION INDUCED BY UVEORETINAL ANTIGEN IN PATIENTS WITH DIABETIC RETINOPATHY. Aviner Z, Henley WL, Okas S, Leopold IH *Diabetes* 25: 1106-9, Dec 76 (Eng) DL/77MAR125

LIGAND

UV DIFFERENCE SPECTROSCOPIC STUDIES OF THE INTERACTION OF ALLOSTERIC LIGANDS AND NEUROSPORA PYRUVATE KINASE. O'Brien MD, Kapoor M *FEBS Lett* 58: 366-9, 15 Oct 75 (Eng) *DL/77MAR502

LIGHT-DARK CYCLE

[CHANGES IN CARBOHYDRATE METABOLISM AND EFFICIENCY OF HYPOGLYCEMIC DRUGS RELATED TO THE LIGHT DARK CYCLE IN RATS. A STUDY ON STIMULATED DIAPHRAGM (AUTHORS TRANSL)] Sterne J, Pecard F *Diabete Metab* 2: 21-5, Mar 76 (Fre) DL/77MAR110

LIPASE, LIPOPROTEIN

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND DIABETES (AUTHORS TRANSL)] Juillard J, Sezille G, Fruchart JC, Dewailly P, Romon M *Diabete Metab* 2: 5-9, Mar 76 (Fre) DL/77MAR113

HYDROLYSIS OF TRI- AND MONOACYLGLYCEROL BY LIPOPROTEIN LIPASE: EVIDENCE FOR A COMMON ACTIVE SITE. Twu JS, Nilsson-Ehle P, Schotz MC *Biochemistry* 15: 1904-9, 4 May 76 (Eng) *DL/77MAR482

LIPID

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse

LIPOGENESIS

S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

[LIPID AND GLUCOSE ABSORPTION AFTER VAGOTOMY WITH CONSERVATIVE RESECTION OF THE STOMACH] Postolov PM, Fetisov VA, Missiura NV *Vestn Khir* 114: 29-31, Jan 75 (Rus) *DL/77MAR533

LIPID ACCUMULATION

LIPID ACCUMULATION IN HUMAN AORTIC SMOOTH MUSCLE CELL LYOSOMES. Coltoff-Schiller B, Goldfischer S, Wolinsky H, Factor SM *Am J Pathol* 83: 39-44, Apr 76 (Eng) *DL/77MAR549

LIPID DISORDER

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

LIPID METABOLISM

[STATE OF LIPID METABOLISM AND THE ORGAN OF VISION IN CHILDREN WITH DIABETES MELLITUS] Ostashevskaja MI, Petrashevskaja MM, Shcherbina RV *Vopr Okhr Materin Det* 21: 17-20, Feb 76 (Rus) DL/77MAR371

EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS. Berdanier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440

[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA] Mioli V, Pacchiarotti P, Ragaiolo M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523

LIPID OXIDATION

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabete Metab* 1: 131-7, Sep 75 (Eng) DL/77MAR97

LIPID SPECTRUM

[LIPID SPECTRUM OF BLOOD IN PREGNANT WOMEN WITH DIABETES MELLITUS] Giaznova IM, Kniazev IuA, Vtorova VG, Sebkov TV *Vopr Okhr Materin Det* 21: 75-8, Aug 76 (Rus) DL/77MAR379

LIPOTATROPHY

TREATMENT OF INSULIN-INDUCED LIPOATROPHY. Hulst SG *Diabetes* 25: 1052-4, Nov 76 (Eng) DL/77MAR119

LIPODYSTROPHY, CONGENITAL GENERALIZED

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

LIPOGENESIS

HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN

LIPOGENIC ENZYME

RELATION TO GLUCONEOGENESIS AND LIPOGENESIS. Titheradge MA, Coore HG *FEBS Lett* 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76

LIPOGENIC ENZYME

INTERACTING ACTIONS OF INSULIN AND UNESTERIFIED FATTY ACIDS ON LIPOGENIC ENZYMES IN RAT ADIPOCYTES. Sooranna SR, Saggerson ED *FEBS Lett* 69: 144-8, 15 Oct 76 (Eng) DL/77MAR72

LIPOLYSIS

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3:5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

EFFECT OF ANTECEDENT HORMONE ADMINISTRATION ON LIPOLYSIS IN THE PERFUSED ISOLATED FAT CELL. Solomon SS, Duckworth WC *J Lab Clin Med* 88: 984-94, Dec 76 (Eng) DL/77MAR193

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

LIPOPROTEIN

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H *Verh Dtsch Ges Inn Med* 81: 1411-5, 1975 (Ger) *DL/77MAR537

LIPOPROTEIN LIPASE

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND DIABETES (AUTHORS TRANSL)] Jaillard J, Sezille G, Fruchart JC, Dewailly P, Ronmon M *Diabete Metab* 2: 5-9, Mar 76 (Fre) DL/77MAR113

HYDROLYSIS OF TRI- AND MONOACYLGLYCEROL BY LIPOPROTEIN LIPASE: EVIDENCE FOR A COMMON ACTIVE SITE. Twu JS, Nilsson-Ehle P, Schotz MC *Biochemistry* 15: 1904-9, 4 May 76 (Eng) *DL/77MAR482

LIVER

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

EFFECT OF HIGH LEVEL SECTION OF THE SPINAL CORD ON THE CYCLIC AMP SYSTEM IN RAT LIVER. Vaptzarova K, Hanoune J *Biochim Biophys Acta* 444: 712-8, 22 Oct 76 (Eng) DL/77MAR7

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN

RELATION TO GLUCONEOGENESIS AND LIPOGENESIS. Titheradge MA, Coore HG *FEBS Lett* 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76

INFLUENCE OF INSULIN ON LYSOSOMAL ACTIVITY AND UREA PRODUCTION IN ISOLATED PARENCHYMAL CELLS FROM RAT LIVER. Grammelvedt R, Berg T *Hoppe Seyler's Z Physiol Chem* 357: 977-81, Jul 76 (Eng) DL/77MAR147

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jongh HH, van Rijn van Alkemade JW, Wuite TP *In O Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [26] *DL/77MAR509*

LIVER CELL

CYCLIC AMP CONTROL BY PROSTAGLANDIN E1 IN NON-PARENCHYMAL LIVER CELLS. Ferretti E, Biondi C, Tomasi V *FEBS Lett* 69: 70-4, 15 Oct 76 (Eng) DL/77MAR74

LIVER DENERVATION

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENERVATION TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Trietley GJ, Bernardis LL *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

LIVER DISEASE

[DIABETES MELLITUS SECONDARY TO LIVER DISEASES. A REVIEW (AUTHORS TRANSL)] Guillon J, Charbonnel B *Diabete Metab* 1: 191-9, Sep 75 (Fre) [58] DL/77MAR101

LIVER FUMARASE

DIETARY CONTROL OF INTRACELLULAR DISTRIBUTION OF RAT LIVER FUMARASE. Nakashima K, Takeda M, Tuboi S *Biochem Biophys Res Commun* 72: 1562-9, 18 Oct 76 (Eng) DL/77MAR474

LYMPH

[MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY] Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388

LYMPHOID CELL

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Biull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

LYSOSOME

INFLUENCE OF INSULIN ON LYSOSOMAL ACTIVITY AND UREA PRODUCTION IN ISOLATED PARENCHYMAL CELLS FROM RAT LIVER. Grammelvedt R, Berg T *Hoppe Seyler's Z Physiol Chem* 357: 977-81, Jul 76 (Eng) DL/77MAR147

LIPID ACCUMULATION IN HUMAN AORTIC SMOOTH MUSCLE CELL LYOSOMES. Coltoff-Schiller B, Goldfischer S, Wolinsky H, Factor SM *Am J Pathol* 83: 39-44, Apr 76 (Eng) *DL/77MAR549

MACULAR EDEMA

DIABETIC MACULAR EDEMA. Patz A, Fine SL *Int Ophthalmol Clin* 16: 105-113, Winter 76 (Eng) DL/77MAR157

MAGNESIUM

CHANGES IN PLASMA AND URINE MAGNESIUM FOLLOWING SUBCUTANEOUS INSULIN. Lindsay R *Curr Med Res Opin* 4: 296-302, 1976 (Eng) DL/77MAR45

CALCIUM ANTAGONISTS AND ISLET FUNCTION. VIII. THE EFFECT OF MAGNESIUM. Malaisse WJ, Devis G, Herchuelz A, Sener A, Somers G *Diabete Metab* 2: 1-4, Mar 76 (Eng) DL/77MAR107

DYNAMIC CHARACTERISTICS OF ELECTRICAL ACTIVITY IN PANCREATIC BETA-CELLS. I. - EFFECTS OF CALCIUM AND MAGNESIUM REMOVAL. Atwater I, Beigelman PM *J Physiol (Paris)* 72: 769-86, Nov 76 (Eng) DL/77MAR208

MAGNESIUM-INDUCED BRADYCARDIA [LETTER]. Berns AS, Kollmeyer KR *Ann Intern Med* 85: 760-1, Dec 76 (Eng) DL/77MAR460

[BEHAVIOR OF CALCIUM, INORGANIC PHOSPHORUS, MAGNESIUM AND GLUCOSE CONCENTRATIONS IN THE PLASMA OF EWES IN THE PERINATAL PERIOD] Brenner K, Seidel H *Arch Exp Veterinarmed* 29: 939-45, Dec 75 (Ger) *DL/77MAR553

MAGNESIUM, SERUM

[DETERMINATION OF SERUM MAGNESIUM] Yoshida M, Ohno J *Jpn J Clin Med* 34 suppl: 2024-35, 1976 (Jpn) DL/77MAR227

MAMMARY CELL

RESPONSES OF MAMMARY CELLS TO HORMONES. Banerjee MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

MAMMARY GLAND

ACTION OF PROLACTIN ON ORNITHINE DECARBOXYLASE ACTIVITY IN MAMMARY GLAND EXPLANTS OF MICE. Rillema JA *Endocr Res Commun* 3: 297-305, 1976 (Eng) DL/77MAR55

MAMMARY TUMOR

EFFECT OF INSULIN ON GLUCOSE TRANSPORT IN DMBA-INDUCED MAMMARY TUMORS. Harmon JT, Hilf R *Eur J Cancer* 12: 933-4, Nov 76 (Eng) DL/77MAR67

Diabetes Literature—Keyword Index

MANAGEMENT

OUTPATIENT MANAGEMENT OF THE JUVENILE DIABETIC. Kennell C *Pediatr Nurs* 2: 19-20, 23, Nov-Dec 76 (Eng) DL/77MAR305

CURRENT TRENDS IN THE MANAGEMENT OF DIABETIC KETO-ACIDOTIC COMA. Vinik AI *S Afr Med J* 50: 1693-4, Oct 76 (Eng) DL/77MAR349

THE ROLE OF INTRAVENOUS NUTRITION IN THE MANAGEMENT OF ACUTE RENAL FAILURE. Lec HA *S Afr Med J* 50: 1703-5, Oct 76 (Eng) DL/77MAR350

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JJ, Rosenbloom AL, Grgic A, Weber FT *Am J Dis Child* 130: 1324-7, Dec 76 (Eng) DL/77MAR443

MASS SPECTROMETRY

GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS OF METHYLATION OF SULFONYLUREA DRUGS. Midha KK, Awang DV, McGilvray IJ *Biomed Mass Spectrom* 3: 100-9, Jun 76 (Eng) DL/77MAR9

MATERNAL HYPOTHYROIDISM

THE EFFECT OF MATERNAL HYPOTHYROIDISM ON MATERNAL AND FETAL TISSUE GLUCOSE-1-14C INCORPORATION IN RATS. Porterfield SP, Hendrich CE *Horm Res* 6: 236-46, 1975 (Eng) *DL/77MAR504

MATERNAL SERUM

PREDICTION OF FETAL OUTCOME BY URINARY ESTRADIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHA-FETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

MATURITY ONSET DIABETES

[GLISOXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Happ J, Beyer J, Ulreich F, Schoffling K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

MAZINDOL

THE EFFECT OF AN ANORECTIC AGENT (MAZINDOL) ON CONTROL OF OBESE DIABETICS. Sanders M, Bredahl H *Med J Aust* 2: 576-7, 9 Oct 76 (Eng) DL/77MAR261

MEDIASTINITIS

[PHLEGMON OF THE LARYNX IN A PATIENT WITH DIABETES COMPLICATED BY MEDIASTINITIS] Khasanov SA *Zh Ushn Nos Gorl Bolez* 102-3, Sep-Oct 76 (Rus) DL/77MAR396

MEDICAL TREATMENT

DIETARY AND MEDICAL TREATMENTS OF OBESITY: AN EVALUATIVE REVIEW. Chlouverakis C *Addict Behav* 1: 3-21, Jul 75 (Eng) DL/77MAR437

MEDIUM, CHEMICALLY DEFINED

STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

MEMBRANE

[COMPARISON OF JUMPING AND ELECTRODIFFUSION MECHANISMS OF PARTICLE MOVEMENT IN THIN MEMBRANES. I. STATEMENT OF THE PROBLEM. STATIONARY TRANSFER] Aitian SKh, Markin VS, Malev VV *Biofizika* 21: 253-6, Mar-Apr 76 (Rus) *DL/77MAR488

PHOTOREDUCTION OF MEMBRANE BOUND CYTOCHROME C BY EXCITED-STATE PHENOTHIAZINE. Vanderkooi JM *Biochem Biophys Res Commun* 69: 1043-9, 19 Apr 76 (Eng) *DL/77MAR559

MEMBRANE, BILAYER

THE HYDROPHOBIC ADSORPTION OF CHARGED MOLECULES TO BILAYER MEMBRANES: A TEST OF THE APPLICABILITY OF THE STERN EQUATION. McLaughlin S, Harary H *Biochemistry* 15: 1941-8, 4 May 76 (Eng) *DL/77MAR483

MEMBRANE, BIOLOGICAL

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOODS CELLS. Rousselet A, Guthmann C, Matricon J, Bienvenue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

MEMBRANE, CELL

STUDIES ON THE FUNCTION OF PANCREATIC ISLET CELL MEMBRANES. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *J Physiol (Paris)* 72: 729-46, Nov 76 (Eng) DL/77MAR205

MEMBRANE, ELASTIC

[HISTOTOPOCHEMICAL INVESTIGATIONS ON ELASTIC MEMBRANES OF BLOOD VESSELS WITH SPECIAL REGARD OF DIABETES MELLITUS. IV. HEAVY METALS (AUTHORS TRANSL.)] Opitz M, Von Dorsche HH *Acta Histochem (Jena)* 56: 211-4, 1976 (Ger) DL/77MAR423

MEMBRANE, INNER MITOCHONDRIAL

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

METABOLISM

MEMBRANE, INTRACELLULAR

INTRACELLULAR MEMBRANE JUNCTIONS DURING THE EXOCYTOSIS OF INSULIN. Dahl G, Berger W, Meissner HP *J Physiol (Paris)* 72: 703-9, Nov 76 (Eng) DL/77MAR202

MEMBRANE JUNCTION

INTRACELLULAR MEMBRANE JUNCTIONS DURING THE EXOCYTOSIS OF INSULIN. Dahl G, Berger W, Meissner HP *J Physiol (Paris)* 72: 703-9, Nov 76 (Eng) DL/77MAR202

MEMBRANE, PLASMA

PREPARATION AND CHARACTERIZATION OF PLASMA MEMBRANE-ENRICHED FRACTIONS FROM RAT PANCREATIC ISLETS. Lernmark A, Nathans A, Steiner DF *J Cell Biol* 71: 606-23, Nov 76 (Eng) DL/77MAR168

MERCURIAL

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Sehlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

METABOLIC ACTIVITY

[METABOLIC ACTIVITY OF THE SMALL-FOR-DATE NEWBORN INFANT] Sann L *Pediatr* 31: 309-13, Apr 76 (Fre) [43] DL/77MAR308

METABOLIC DISORDER

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baraton S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

METABOLIC RESPONSE

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

METABOLISM

[METABOLISM IN THE NEWBORN INFANTS OF DIABETIC MOTHERS DURING THE 1ST DAYS OF LIFE] Pribylova H *Cesk Pediatr* 31: 529-31, Oct 76 (Cze) DL/77MAR33

[CHANGES IN FREE FATTY ACID METABOLISM IN RABBITS SUBJECTED TO PROLONGED INSULIN ADMINISTRATION] Marquie G *C R Acad Sci [D] (Paris)* 283: 519-21, 20 Sep 76 (Fre) DL/77MAR39

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3:5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Saquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E,

Diabetes Literature—Keyword Index

METABOLISM, CARBOHYDRATE

- Felber JP *Diabetes Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97
- METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS.** Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118
- METABOLISM OF GLYCOSYL IN THE SCORPION HETEROMETRUS SCABER (THOR.).** Vijayalakshmi NR, Kurup PA *Indian J Exp Biol* 14: 124-6, Mar 76 (Eng) DL/77MAR152
- DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBESE-HYPERGLYCEMIC (OB/OB) MICE.** Cuendet GS, Loten EG, Jeanraud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173
- THE ROLE OF THE KIDNEY IN THE METABOLISM OF PLASMA PROTEINS.** PP. 392-405, Strober W, Waldmann TA In: *Giovannetti S, et al., ed. Sixth international congress of nephrology.* Basel, Karger, 1976. W3 IN446 1975a. (Eng) [27]DL/77MAR191
- BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT** Dargel D, Schulke B, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271
- [SOME METABOLIC EFFECTS OF SALBUTAMOL]** Fassio V, Massara F, Camanni F, Martina V *Minerva Med* 67: 3267, 20 Oct 76 (Ita) DL/77MAR282
- [CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT]** Enzi G, Mugge M, Tiengo A *Minerva Med* 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285
- INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA.** Kreines K, Starr JJ, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300
- ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS.** Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316
- EFFECTS OF SUBACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS.** Stevenson A, Merati Z, Kacaw S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361
- [MUTATIONAL-METABOLIC MODEL OF CARCINOGENESIS AND THE PROGRESSION OF THE NEOPLASTIC PROCESS]** Dilman VM *Vopr Onkol* 22: 3-16, 1976 (Rus) DL/77MAR381
- [HEMODYNAMICS, METABOLISM AND FUNCTION OF THE PERFUSED PANCREAS UNDER NORMAL TEMPERATURE]** Meyer W, Petersen H *Z Exp Chir* 9: 113-9, 1976 (Ger) DL/77MAR391
- STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH.** Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402
- METABOLISM OF KETONE BODIES BY OVINE BRAIN IN VIVO.** Kammula RG *Am J Physiol* 231: 1490-4, Nov 76 (Eng) DL/77MAR451
- SURFACE SULPHYDRYL GROUPS AND PHAGOCYTOSIS-ASSOCIATED OXIDATIVE**

- METABOLIC CHANGES IN HUMAN POLYMORPHONUCLEAR LEUCOCYTES.** Tsan MF, Newman B, McIntyre PA *Br J Haematol* 33: 189-204, Jun 76 (Eng) *DL/77MAR479
- [EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)]** Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518
- INFLUENCE OF LACTATE INFUSION ON GLUCOSE AND FFA METABOLISM IN MAN.** Ahlborg G, Hagenfeldt L, Wahren J *Scand J Clin Lab Invest* 36: 193-201, Mar 76 (Eng) *DL/77MAR530
- EFFECT OF PROPRANOLOL ON THYROID-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS.** Uscilko HK, Brzezinska Z, Greenleaf JE *Acta Physiol Pol* 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543

METABOLISM, CARBOHYDRATE

- [CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS]** Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3
- ANTI-HYPERTENSIVE ACTION, TIME OF ONSET AND EFFECTS ON CARBOHYDRATE METABOLISM OF LABETALOL.** Andersson O, Berghlund G, Hansson L *Br J Clin Pharmacol* 3: 757-61, Aug 76 (Eng) DL/77MAR4
- [CHANGES IN CARBOHYDRATE METABOLISM AND EFFICIENCY OF HYPOGLYCEMIC DRUGS RELATED TO THE LIGHT DARK CYCLE IN RATS. A STUDY ON STIMULATED DIAPHRAGM (AUTHORS TRANSL)]** Sterne J, Pecard F *Diabetes Metab* 2: 21-5, Mar 76 (Fre) DL/77MAR110
- ABNORMAL CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA ON GUAM.** Koerner DR *Diabetes* 25: 1055-65, Nov 76 (Eng) DL/77MAR120
- [ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS]** Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276
- [CARBOHYDRATE METABOLISM IN CHILDREN BORN TO WOMEN WITH DIABETES MELLITUS]** Vitorova VG, Savchenko TN, Loseva IV, Vishnevskii FE *Vopr Okhr Materin Det* 21: 9-12, Feb 76 (Rus) DL/77MAR372
- [MAIN INDICATORS OF CARBOHYDRATE METABOLISM IN OBESE CHILDREN AND ADOLESCENTS]** Dudenko NV, Zhamkochian LF, Belopashentseva SB *Vopr Okhr Materin Det* 21: 14-7, Aug 76 (Rus) DL/77MAR376
- [INFLUENCE OF CHROMIUM AS A TRACE ELEMENT ON THE HORMONAL REGULATION IN THE RAT. 2. PHYSIOLOGICAL FUNCTION OF CHROMIUM IN CARBOHYDRATE METABOLISM]** Djhanschiri H, Brune H *Z Tierphysiol* 36: 201-13, Aug 75 (Ger) *DL/77MAR540
- METABOLISM, GLUCOSE**
- [THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)]** Jeanjean M,

- Dehez-Delhay M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137
- [THE EFFECT OF AGE ON THE IN VITRO RESPONSE TO INSULIN IN THE RAT. I. GLUCOSE METABOLISM ON THE DIAPHRAGM (AUTHORS TRANSL)]** Gommers A, Dehez-Delhay M, Jeanjean M *Gerontology* 23: 134-41, 1977 (Fre) DL/77MAR138
- EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE.** Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200
- INFLUENCE OF ACETATE ON GLUCOSE METABOLISM IN THE PERFUSED HIND-QUARTER OF THE RAT.** Karlsson N, Fellenius E, Kiessling KH *Acta Physiol Scand* 98: 347-55, Nov 76 (Eng) DL/77MAR434
- [GLUCOSE METABOLISM DURING STEROID AND BIGUANIDE THERAPY USING TRITIATED GLUCOSE]** Bottermann P, Schweigart U, Emmler R *Verh Dtsch Ges Inn Med* 81: 1481-4, 1975 (Ger) *DL/77MAR539

METABOLISM, LIPID

- [STATE OF LIPID METABOLISM AND THE ORGAN OF VISION IN CHILDREN WITH DIABETES MELLITUS]** Ostashevskaja MI, Petrashevskaja MM, Shcherbina RV *Vopr Okhr Materin Det* 21: 17-20, Feb 76 (Rus) DL/77MAR371
- EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS.** Berdanier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440
- [INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA]** Mioli V, Pacchiarotti P, Ragaio M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523
- METABOLISM, PHOSPHOLIPID**
- EARLY EFFECTS OF SERUM ON PHOSPHOLIPID METABOLISM IN UNTRANSFORMED AND ONCOGENIC VIRUS-TRANSFORMED CULTURED FIBROBLASTS.** Ciechanover A, Hershko A *Biochem Biophys Res Commun* 73: 85-91, 8 Nov 76 (Eng) DL/77MAR475

METABOLITE

- KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE.** Vague P, Ramahandridona G, Di Campo-Rougerie C, Mahmoud F *Diabetes Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100
- CHARACTERIZATION OF PHENFORMIN AND METABOLITES IN PLASMA.** Heuclin C, Pese F, Savouret JF, Assan R *Diabetes Metab* 1: 234-40, Dec 75 (Eng) DL/77MAR105
- METAPLASIA, EPITHELIAL**
- A HISTOPATHOLOGICAL STUDY ON THE ISLETS OF LANGERHANS AND DUCTAL EPITHELIAL METAPLASIA IN ATROPHIC LOBULI OF PANCREAS.** Suda K, Komatsu K, Hashimoto K *Acta Pathol Jpn* 26: 561-72, Sep 76 (Eng) DL/77MAR429

METFORMIN

- INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES.** Carpentier J, Luyckx AS, Lefebvre PJ *Diabetes Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

Diabetes Literature—Keyword Index

MORTALITY

METHOD

LOCALIZATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) BY IMMUNOHISTOCHEMICAL METHOD IN NORMAL AND PATHOLOGICAL HUMAN PLACENTA. PP. 373-8. Genbacev O, Sulovic V In: Feldman C, et al., ed. *Immunoenzymatic techniques*. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR188

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Barafono S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGGT IN CHILDREN] Barafono S, Cerutti F, Miglio C, Altare F *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

RAPID METHOD FOR THE MEASUREMENT OF PLASMA GLUCOSE CONCENTRATION. Telfer Brunton WA, Percy-Robb IW *Clin Chim Acta* 69: 131-5, 17 May 76 (Eng) *DL/77MAR434

[METHOD OF DETERMINING SUGAR IN THE BLOOD] Roberman NB *Probl Endokrinol (Mosk)* 22: 53-5, 1976 (Rus) *DL/77MAR524

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

NONISOTOPIC METHOD FOR ESTIMATING CHOLESTEROLENEMIA IN THE RAT. Phillips WA, Ratchford JM, Schulta JR *Adv Exp Med Biol* 67: 251-265, 1976 (Eng) *DL/77MAR548

METHOD, SEMIAUTOMATED

A SEMIAUTOMATED METHOD FOR THE ESTIMATION OF SERUM HAPTOGLOBIN LEVELS. Shepherd DN, Jonsson A *Biochem Med* 16: 152-6, Oct 76 (Eng) DL/77MAR473

MICROANGIOPATHY

[DIABETES MELLITUS AND MICROANGIOPATHY] Goebel FD *Minerva Cardioangiolog* 24: 275-80, Apr 76 (Ita) DL/77MAR274

MICROBICIDAL

PHAGOCYTIC AND MICROBICIDAL FUNCTION IN DIABETES MELLITUS. Bagdade JD *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 27-34, 1976 (Eng) DL/77MAR416

MICROCIRCULATORY HEPATIC UNIT

THE MICROCIRCULATORY HEPATIC UNIT. PP. 425-34. Rappaport AM In: Gerok W, Sickinger K, ed. *Drugs and the liver*. Stuttgart, Schattauer, 1975. W3 FR446 1973d. (Eng) *DL/77MAR507

MICROELECTRODE

EVIDENCE AGAINST H₂ AND K⁺ AS THE MAIN FACTORS IN THE REGULATION OF

CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK In: Betz E, ed. *Ionic actions on vascular smooth muscle*. Berlin, Springer, 1976. W3 SY732 1976i. (Eng) DL/77MAR187

MICROMETHOD

A SEMIAUTOMATED MICROMETHOD FOR DEXTRAN IN THE PRESENCE OF GLUCOSE. Weet JF, Cobb CA, Lebric SJ *J Lab Clin Med* 87: 898-902, May 76 (Eng) *DL/77MAR512

MICROSCOPY, ELECTRON

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PANCREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

MIDDLE AGED

WHAT MIDDLE-AGED MEN KNOW OF THEIR PARENTS CAUSE OF DEATH AND AGE AT DEATH. A COMPARISON BETWEEN HISTORY AND DEATH CERTIFICATE. Waern U, Hedstrand H, Aberg H *Scand J Soc Med* 4: 123-9, 1976 (Eng) DL/77MAR336

MINERAL WATER

[EFFECT OF MINERAL WATER ON THE SECRETION OF INSULIN IN AN ACUTE EXPERIMENT] Horni J, Vodza J *Fysiatr Reumatol Vestn* 54: 236-42, Oct 76 (Cze) DL/77MAR145

MITOCHONDRIAL MEMBRANE

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

MITOCHONDRIAL PYRUVATE CARRIER

HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN RELATION TO GLUCONEOGENESIS AND LIPOGENESIS. Titheradge MA, Coore HG *FEBS Lett* 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76

MODEL

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

[MUTATIONAL-METABOLIC MODEL OF CARCINOGENESIS AND THE PROGRESSION OF THE NEOPLASTIC PROCESS] Dilman VM *Vopr Onkol* 22: 3-16, 1976 (Rus) DL/77MAR381

ANIMAL MODEL OF HUMAN DISEASE: DIABETES MELLITUS. Wolf S *Am J Pathol* 85: 805-8, Dec 76 (Eng) DL/77MAR448

[HYPERTRIGLYCERIDEMIA IN RATS FOLLOWING GLUCOSE INFUSION--AN ANIMAL EXPERIMENT MODEL FOR THE STUDY OF TYPE IV HYPERLIPIDEMIA PATHOGENESIS] Heuck CC *Verh Dtsch Ges Inn Med* 81: 1446-9, 1975 (Ger) *DL/77MAR538

MOLECULAR

AN APPROACH TO A MOLECULAR UNDERSTANDING OF EXOCYTIC INSULIN RELEASE. Lazarus NR, Davis B, O'Connor KJ *J Physiol (Paris)* 72: 787-94, Nov 76 (Eng) DL/77MAR209

MOLECULE

THE HYDROPHOBIC ADSORPTION OF CHARGED MOLECULES TO BILAYER MEMBRANES: A TEST OF THE APPLICABILITY OF THE STERN EQUATION. McLaughlin S, Harary H *Biochemistry* 15: 1941-8, 4 May 76 (Eng) *DL/77MAR483

MONITORING

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL.)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

MONOCHROMATISM

FAMILIAL CONGENITAL MONOCHROMATISM, CATARACTS, AND SENSORINEURAL DEAFNESS. Jan JE, Tze WJ, Johnston AC, Dunn HG *Am J Dis Child* 130: 1349-50, Dec 76 (Eng) DL/77MAR444

MONOCOMPONENT INSULIN

[EXPERIENCES WITH MONOCOMPONENT INSULIN] Fagerberg SE, Gamstedt A *Lakaridningen* 73: 4097-9, 17 Nov 76 (Swe) DL/77MAR236

MONOCYTE

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBSE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gordon P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

MORBIDITY

[THE PROBLEM OF INCREASING MORBIDITY RATE AMONG MEMBERS OF HOMES FOR THE AGED] Kalista V *Cesk Zdrav* 24: 386-9, Sep 76 (Cze) DL/77MAR34

MORTALITY

[STATISTICAL RELATIONSHIPS BETWEEN FOOD SUPPLY AND THE MORTALITY OF SOME CHRONIC DEGENERATIVE DISEASES IN EIGHT INDUSTRIALLY DEVELOPED COUNTRIES] Haenel H, Ulbricht G, Oehmisch W, Erhardt V *Z Gesamte Hyg* 22: 748-58, 1976 (Ger) DL/77MAR390

UNRECOGNIZED MYOCARDIAL INFARCTION: FIVE-YEAR INCIDENCE, MORTALITY, AND RISK FACTORS. Medalie JH, Goldbourt U *Ann Intern Med* 84: 526-31, May 76 (Eng) *DL/77MAR552

Diabetes Literature—Keyword Index

MORTALITY

MOTHER, DIABETIC

[SUBMICROSCOPICAL PICTURE OF THE PLACENTA IN DIABETIC MOTHERS (AUTHORS TRANSL.) Krausova H, Zidovsky J *Cesk Gynekol* 41: 564-5, Oct 76 (Cze) DL/77MAR32

[METABOLISM IN THE NEWBORN INFANTS OF DIABETIC MOTHERS DURING THE 1ST DAYS OF LIFE] Pribylova H *Cesk Pediatr* 31: 529-31, Oct 76 (Cze) DL/77MAR33

MOUSE, DBM

ADRENAL FUNCTION IN THE DIABETIC MURINE MOUSE (GENE SYMBOL DBM). Naeser P *Acta Physiol Scand* 98: 395-9, Dec 76 (Eng) DL/77MAR435

MOUSE, NUDE

RESTITUTION OF STREPTOZOTOCIN INDUCED DIABETES MELLITUS IN NUDE MICE WITH PANCREATIC GRAFTS FROM THE RAT. Buschard K, Rygaard J *Acta Pathol Microbiol Scand [C]* 84: 221-6, Jun 76 (Eng) DL/77MAR431

MOUSE, OB-OB

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBESE-HYPERGLYCEMIC (OB/OB) MICE. Cuendet GS, Loten EG, Jeanrenaud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173

THE DEVELOPMENT OF OBESITY, HYPERINSULINEMIA, AND HYPERGLYCEMIA IN OB/OB MICE. Dubuc PU *Metabolism* 25: 1567-74, Dec 76 (Eng) DL/77MAR252

MUCORMYCOSIS

[ACUTE FACIAL MUCORMYCOSIS IN A DIABETIC SUBJECT. SUCCESSFUL TREATMENT WITH AMPHOTERICIN B] Olivier R, Legrand R, Lefebvre P *Diabete Metab* 1: 221-5, Dec 75 (Fre) DL/77MAR104

MUSCLE

BINDING OF INSULIN AND NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY TO ISOLATED PERFUSED RAT HEART MUSCLE. EVIDENCE FOR TWO SEPARATE BINDING SITES. Meuli C, Froesch ER *Arch Biochem Biophys* 177: 31-8, Nov 76 (Eng) DL/77MAR465

MUSCLE, CARDIAC

REGULATION OF GLYCOLYSIS AND PYRUVATE OXIDATION IN CARDIAC MUSCLE. Randle PJ *Circ Res* 38: i8-15, May 76 (Eng) *DL/77MAR493

MUSCLE CELL, SMOOTH

GROWTH OF RABBIT AORTIC SMOOTH MUSCLE CELLS IN SERUM FROM PATIENTS WITH JUVENILE DIABETES. Ledet T *Acta Pathol Microbiol Scand [A]* 84: 508-16, Nov 76 (Eng) DL/77MAR430

LIPID ACCUMULATION IN HUMAN AORTIC SMOOTH MUSCLE CELL LYOSOMES. Coltoff-Schiller B, Goldfischer S, Wolinsky H, Factor SM *Am J Pathol* 83: 39-44, Apr 76 (Eng) *DL/77MAR549

MUSCLE, SKELETAL

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

MUSCULAR EXERCISE

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Onsd S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

MUTANT

ADRENAL FUNCTION IN THE DIABETIC MURINE MOUSE (GENE SYMBOL DBM). Naeser P *Acta Physiol Scand* 98: 395-9, Dec 76 (Eng) DL/77MAR435

MUTATIONAL-METABOLIC MODEL

[MUTATIONAL-METABOLIC MODEL OF CARCINOGENESIS AND THE PROGRESSION OF THE NEOPLASTIC PROCESS] Dilman VM *Vopr Onkol* 22: 3-16, 1976 (Rus) DL/77MAR381

MYOCARDIAL

MYOCARDIAL ENZYME LOSS: FACTORS LEADING TO REDUCTION OR EXACERBATION OF RELEASE. Hearse DJ, Humphrey SM *Recent Adv Stud Cardiac Struct Metab* 7: 327-34, 1975 (Eng) *DL/77MAR528

MYOCARDIAL FUNCTION

MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI ENDOTOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS. Marchetti G, Merlo L, Nosedà V, Brusoni B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527

MYOCARDIAL INFARCTION

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

[MYOCARDIAL INFARCTION IN DIABETICS (AUTHORS TRANSL.)] Passa P, Masquer C, Krajevitch A, Brasquer Y, Bouvrain Y *Diabete Metab* 1: 179-83, Sep 75 (Fre) DL/77MAR99

[STUDIES ON CLINICAL PREDICTION OF MYOCARDIAL INFARCTION: QUANTIFICATIONS OF CORONARY RISK FACTORS (AUTHORS TRANSL.)] Kato K *Jpn Circ J* 40: 1041-3, 1055-66, Sep 76 (Jpn) DL/77MAR222

[CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT] Enzi G, Muggeo M, Tiengo A *Minerva Med* 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285

RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION. Ceremuzynski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutner RJ,

Saroff J *Recent Adv Stud Cardiac Struct Metab* 463-72, 1972 (Eng) *DL/77MAR526

UNRECOGNIZED MYOCARDIAL INFARCTION: FIVE-YEAR INCIDENCE, MORTALITY, AND RISK FACTORS. Medalie JH, Goldbourt U *Ann Intern Med* 84: 526-31, May 76 (Eng) *DL/77MAR552

MYOCARDIAL INFARCTION, ACUTE

POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY. Machtey I, Syrakis I, Nissimov MR, Lobel H *J Am Geriatr Soc* 24: 334-7, Dec 76 (Eng) DL/77MAR185

DOPAMINE-BETA-HYDROXYLASE ACTIVITY IN SERUM FOLLOWING ACUTE MYOCARDIAL INFARCTION: AN EVALUATION OF THIS PARAMETER FOR ROUTINE USE AS AN INDEX OF SYMPATHETIC ACTIVITY. Gutteberg T, Borud O, Stromme JH *Clin Chim Acta* 69: 61-6, 17 May 76 (Eng) *DL/77MAR495

MYOCARDITIS

[MYOCARDITIS AND INSULITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hofmann W, Waldherr R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

MYOCARDIUM

[THERAPEUTIC ACTION OF GLUCAGON ON PATHOLOGICAL STATES OF THE MYOCARDIUM, ESPECIALLY ON SPECIFIC CONDUCTION TISSUE DISORDERS] Sanna S, Leo P, Netter R *Boll Soc Ital Cardiol* 20: 1233-49, 1975 (Ita) DL/77MAR2

THE PERFUSED ISOLATED LEFT ATRIUM: A PREPARATION FOR STUDIES ON SUGAR TRANSPORT IN THE MYOCARDIUM. Senti PC, Bihler I *Can J Physiol Pharmacol* 54: 708-11, Oct 76 (Eng) DL/77MAR24

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Odewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41

[USE OF GLUCAGON IN THE TREATMENT OF SEVERE CONTRACTILE INSUFFICIENCY OF THE MYOCARDIUM] Bertolazzi R, Ricciardi S, Marengo G *Minerva Med* 67: 3519-24, 10 Nov 76 (Ita) DL/77MAR286

PROTEIN SYNTHESIS IN CELL-FREE SYSTEMS FROM TOTALLY ISCHEMIC RAT MYOCARDIUM. Hinterberger U, Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 7: 341-7, 1975 (Eng) *DL/77MAR529

MYOPATHY

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND COLFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL.)] Rumpf KW, Quellthrost E, Scheler F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

NARCOTIC WITHDRAWAL

ALLEVIATION OF NARCOTIC WITHDRAWAL SYNDROME BY CONDITIONAL STIMULI. Lal H, Miksic S, Drawbaugh R, Numan R, Smith N *Pavlov J Biol Sci* 11: 251-62, Oct-Dec 76 (Eng) DL/77MAR303

NATURAL HISTORY

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONARY

Diabetes Literature—Keyword Index

NUCLEOTIDE

NITROGEN BALANCE

ENDOGENOUS CALORIC SOURCES AND NITROGEN BALANCE: REGULATION IN POSTOPERATIVE PATIENTS. Gazzaniga AB, Day AT, Barlett RH, Wilson AF *Arch Surg* 111: 1357-61, Dec 76 (Eng) DL/77MAR468

NON-KETOTIC DIABETIC COMA

HYPEROSMOLAR NON-KETOTIC DIABETIC COMA IN A JUVENILE. Owusu SK, Anterkyi FS, Shaw-Taylor KE, Konotey-Ahulu FI *Ghana Med J* 14: 241-2, Sep 75 (Eng) DL/77MAR397

NONESTERIFIED FATTY ACID

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

NONSUPPRESSIBLE INSULIN LIKE ACTIVITY

BINDING OF INSULIN AND NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY TO ISOLATED PERFUSED RAT HEART MUSCLE. EVIDENCE FOR TWO SEPARATE BINDING SITES. Meuli C, Froesch ER *Arch Biochem Biophys* 177: 31-8, Nov 76 (Eng) DL/77MAR465

NOREPINEPHRINE

ISOTOPE-DERIVATIVE MEASUREMENTS OF PLASMA NOREPINEPHRINE AND EPINEPHRINE IN MAN. Cryer PE *Diabetes* 25: 1071-82, Nov 76 (Eng) [52] DL/77MAR122

EFFECTS OF NOREPINEPHRINE AND THYROXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Moriya K, Maekubo H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

NUCLEI

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Biull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

NUCLEI, HEPATOCYTE

[COMPARISON OF THE SIZE OF HEPATOCYTE NUCLEI IN DIABETES AND IN SELECTED DIGESTIVE TRACT DISEASES] Danilewicz M, Danilewiczowa M, Mielczarek H, Pruszczyński M, Torzecki Z *Pol Tyg Lek* 31: 1961-2, 15 Nov 76 (Pol) DL/77MAR313

NUCLEOTIDE

[CONTROL OF THE REGENERATION OF SMALL PIECES OF THE PLANARIAN DUGESIA TIGRINA BY CYLIC AMP AND GMP NUCLEOTIDES] Lenicque PM *C R Acad Sci [D] (Paris)* 283: 1317-9, 8 NOV 76 (Fre) DL/77MAR35

THE ACTIVATION OF ADENYLATE CYCLASE BY CHOLERA TOXIN: POSSIBLE INTERACTION WITH THE NUCLEOTIDE REGULATORY SITE. Flores J, Sharp GW *Ciba Found Symp* 42: 89-108, 1976 (Eng) [35] DL/77MAR47

[ROLE OF ADENINE MONO- AND DINUCLEOTIDES IN AMMONIA FORMATION IN BRAIN TISSUE] Bunatian GK *Vopr Biokhim Mozga* 10: 5-32, 1975 (Rus) [163] DL/77MAR369

GRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

NEFA

SEE FATTY ACID, NONESTERIFIED

NEONATAL

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C In: Feldman C, et al., ed. *Immunoenzymatic techniques*. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189

NEOPLASTIC

[MUTATIONAL-METABOLIC MODEL OF CARCINOGENESIS AND THE PROGRESSION OF THE NEOPLASTIC PROCESS] Dilman VM *Vopr Onkol* 22: 3-16, 1976 (Rus) DL/77MAR381

NEPHROPATHY, DIABETIC

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND COLFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL)] Rumpf KW, Quellthrost E, Scheler F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

[DIABETIC NEPHROPATHIES AND THEIR TREATMENT] Janeczko D *Pol Tyg Lek* 31: 1989-92, 15 Nov 76 (Pol) DL/77MAR314

[PRECLINICAL DIAGNOSIS OF DIABETIC NEPHROPATHIES WITH THE AID OF RADIOINDICATION METHODS] Leshchinskii LA, Losaberidze BB, Pimenov LT *Ter Arkh* 48: 73-9, 1976 (Rus) DL/77MAR356

NEPHROTOXIC

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

NERVE

[DECOMPRESSION OF INDIVIDUAL NERVES IN ANATOMICAL STRICTURES IN POLYNEUROPATHIES] Skorpil V *Handchirurgie* 8: 127-8, 1976 (Ger) DL/77MAR140

NEUROCHEMICAL CORRELATE

NEUROCHEMICAL CORRELATES OF ALLOXAN DIABETES: PROTEIN AND RIBONUCLEIC ACID LEVELS IN THE DIFFERENT REGIONS OF THE RAT BRAIN. Jayashree C, Nayeemunnisa *Experientia* 32: 1412-3, 15 Nov 76 (Eng) DL/77MAR71

NEUROLOGY

THE NEUROLOGY OF EXPLOSIVE RAGE. THE DYSCONTROL SYNDROME. Elliott FA *Practitioner* 217: 51-60, Jul 76 (Eng) DL/77MAR318

NEUROPATHY

NEUROPATHY IN EXPERIMENTAL DIABETES [LETTER]. Jakobsen J, Lundbaek K *Br Med J* 2: 878-9, 9 Oct 76 (Eng) DL/77MAR17

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNervation. Andersen JT, Bradley WE *Diabetes* 25: 1100-5, Dec 76 (Eng) DL/77MAR124

NEUROPATHY, DIABETIC

DIABETIC NEUROPATHY: CLINICAL ASPECTS. Ellenberg M *Metabolism* 25: 1627-55, Dec 76 (Eng) DL/77MAR255

[DIABETIC NEUROPATHY] Derouiche F, Nagati K *Tunis Med* 54: 573-4, Mar-Apr 76 (Fre) DL/77MAR363

NEUROPATHY, DIABETIC AUTONOMIC

THE AUTONOMOUS HEART IN DIABETIC AUTONOMIC NEUROPATHY [EDITORIAL]. Valisrub S *JAMA* 236: 2784, 13 Dec 76 (Eng) DL/77MAR218

NEUROSPORA

UV DIFFERENCE SPECTROSCOPIC STUDIES OF THE INTERACTION OF ALLOSTERIC LIGANDS AND NEUROSPORA PYRUVATE KINASE. O'Brien MD, Kapoor M *FEBS Lett* 58: 366-9, 15 Oct 75 (Eng) *DL/77MAR502

NEWBORN

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A, Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76 (Eng) DL/77MAR75

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL)] Ruiton A, Frederich F *Diabete Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

[INFLUENCE OF FEATURES OF THE ACT OF DELIVERY IN DIABETIC WOMEN ON THE CONCENTRATION OF GLUCOCORTICOID HORMONES IN THE BLOOD AND URINE OF NEWBORNS] Kalinina LM *Akush Ginekol (Mosk)* 5: 44-7, May 76 (Rus) DL/77MAR455

REGULATORY CHARACTERISTICS OF AMINO ACID TRANSPORT IN NEWBORN RAT RENAL CORTEX CELLS. Reynolds RA, Segal S *Biochim Biophys Acta* 426: 513-25, 19 Mar 76 (Eng) *DL/77MAR486

NEWBORN INFANT

[METABOLISM IN THE NEWBORN INFANTS OF DIABETIC MOTHERS DURING THE 1ST DAYS OF LIFE] Pribylova H *Cesk Pediatr* 31: 529-31, Oct 76 (Cze) DL/77MAR33

[METABOLIC ACTIVITY OF THE SMALL-FOR-DATE NEWBORN INFANT] Sann L *Pediatric* 31: 309-13, Apr 76 (Fre) [43] DL/77MAR308

NITRO BLUE TETRAZOLIUM DYE

EFFECT OF NITRO BLUE TETRAZOLIUM DYE ON THE HEXOSE MONOPHOSPHATE SHUNT ACTIVITY OF HUMAN POLYMORPHONUCLEAR LEUKOCYTES. DeChatelet LR, Shirley PS *Biochem Med* 14: 391-8, Dec 75 (Eng) *DL/77MAR558

Diabetes Literature—Keyword Index

NUCLEUS, CAUDATE

NUCLEUS, CAUDATE

STIMULATION OF GLYCOGENOLYSIS IN RAT CAUDATE NUCLEUS SLICES BY L-ISOPROPYLNOREPINEPHRINE, DIBUTYRYL CYCLIC AMP AND 2-CHLOROADENOSINE. Wilkening D, Makman MH *J Neurochem* 26: 923-8, May 76 (Eng) *DL/77MAR513

NURSE

[DRUG INFORMATION FOR NURSES. OBESITY; THERAPEUTIC MAIN GROUP: ANORECTICS, APPETITE DEPRESSANTS. 3. COMPLICATIONS OF OBESITY] Lumholtz IB *Sygeplejersken* 76: 11, 13 Oct 76 (Dan) DL/77MAR355

OBES

METABOLISM OF THE MOUSE MADE OBES BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

[URINARY EXCRETION OF CATECHOLAMINES IN OBES SUBJECTS AND IN DIABETICS (AUTHORS TRANSL)] Giorgino R, Nardelli GM, Scardapane R *Diabete Metab* 2: 11-3, Mar 76 (Fre) DL/77MAR108

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBES PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gordon P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

CHILDHOOD ANTECEDENTS OF ADULT OBESITY. DO CHUBBY INFANTS BECOME OBES ADULTS Charney E, Goodman HC, McBride M, Lyon B, Pratt R *N Engl J Med* 295: 6-9, 1 Jul 76 (Eng) *DL/77MAR522

OBES CHILD

[MAIN INDICATORS OF CARBOHYDRATE METABOLISM IN OBES CHILDREN AND ADOLESCENTS] Dudenko NV, Zhamkochian LF, Belopashentsva SB *Vopr Okhr Materin Det* 21: 14-7, Aug 76 (Rus) DL/77MAR376

OBES DIABETIC

THE EFFECT OF AN ANORECTIC AGENT (MAZINDOL) ON CONTROL OF OBES DIABETICS. Sanders M, Bredahl H *Med J Aust* 2: 576-7, 9 Oct 76 (Eng) DL/77MAR261

OBES HUMAN

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBES HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

OBES HYPERTENSIVE MOUSE

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBES-HYPERTENSIVE (OB/OB) MICE. Cuendet GS, Loten EG, Jeanrenaud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173

OBESITY

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND

DIABETES (AUTHORS TRANSL)] Jaillard J, Sezille G, Fruchart JC, Dewailly P, Romon M *Diabete Metab* 2: 5-9, Mar 76 (Fre) DL/77MAR113

THE INSULIN RECEPTOR: ITS ROLE IN INSULIN RESISTANCE OF OBESITY AND DIABETES. Olefsky JM *Diabetes* 25: 1154-62, Dec 76 (Eng) [83] DL/77MAR130

THE DEVELOPMENT OF OBESITY, HYPERINSULINEMIA, AND HYPERGLYCEMIA IN OB/OB MICE. Dubuc PU *Metabolism* 25: 1567-74, Dec 76 (Eng) DL/77MAR252

[DIABETES, OBESITY AND ADENOCARCINOMA OF CORPUS UTERI] Bumma C, Calciati A, Cacciari P, La Grotta G, Falda M *Minerva Med* 67: 3261-6, 20 Oct 76 (Ita) DL/77MAR281

[THE INCIDENCE OF DIABETES MELLITUS IN OBESITY-ASSOCIATED HYPERTENSION] Erno K, Katalin K *Orv Hetil* 117: 2737-8, 7 Nov 76 (Hun) DL/77MAR301

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

[DRUG INFORMATION FOR NURSES. OBESITY; THERAPEUTIC MAIN GROUP: ANORECTICS, APPETITE DEPRESSANTS. 3. COMPLICATIONS OF OBESITY] Lumholtz IB *Sygeplejersken* 76: 11, 13 Oct 76 (Dan) DL/77MAR355

[SOMATOTROPIC FUNCTION OF THE PITUITARY IN OBESITY] Epahtein EV *Vrach Delo* 105-8, Jul 76 (Rus) DL/77MAR382

DIETARY AND MEDICAL TREATMENTS OF OBESITY: AN EVALUATIVE REVIEW. Chlouverakis C *Addict Behav* 1: 3-21, Jul 75 (Eng) DL/77MAR437

CHILDHOOD ANTECEDENTS OF ADULT OBESITY. DO CHUBBY INFANTS BECOME OBES ADULTS Charney E, Goodman HC, McBride M, Lyon B, Pratt R *N Engl J Med* 295: 6-9, 1 Jul 76 (Eng) *DL/77MAR522

OCULAR DOMINANCE COLUMN

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

OFFSPRING

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

ONCOGENIC

EARLY EFFECTS OF SERUM ON PHOSPHOLIPID METABOLISM IN UNTRANSFORMED AND ONCOGENIC VIRUS-TRANSFORMED CULTURED FIBROBLASTS. Ciechanover A, Hershko A *Biochem Biophys Res Commun* 73: 85-91, 8 Nov 76 (Eng) DL/77MAR475

ONION

GAS CHROMATOGRAPHIC ANALYSES OF ONION PRINCIPLES AND A STUDY ON THEIR HYPOGLYCEMIC ACTION. Augusti KT *Indian J Exp Biol* 14: 110-2, Mar 76 (Eng) DL/77MAR150

OPHTHALMOPLEGIA, DIABETIC

DIABETIC OPHTHALMOPLEGIA. Sung SM, Ryu RJ, Chen RC *J Formosan Med Assoc* 75: 392-402, Jul 76 (Eng) DL/77MAR197

ORAL

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

ORAL ANTIDIABETIC

ORAL ANTIDIABETICS: PHILOSOPHY AND POLITICS. Bowen AJ *J Med Assoc Ga* 65: 411-4, Nov 76 (Eng) DL/77MAR196

ORAL TREATMENT

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77MAR89

ORGAN

SERUM-FREE CULTIVATION OF THYMUS ORGAN FRAGMENTS. Lumb JR, George YS *Fed Proc* 35: 2555-8, Dec 76 (Eng) DL/77MAR77

[STATE OF LIPID METABOLISM AND THE ORGAN OF VISION IN CHILDREN WITH DIABETES MELLITUS] Ostashevskaja MI, Petrashevskaja MM, Shcherbina RV *Vopr Okhr Materin Det* 21: 17-20, Feb 76 (Rus) DL/77MAR371

ORGAN-SPECIFIC CELL-MEDIATED AUTOIMMUNITY IN DIABETES MELLITUS. Irvine WJ, Mac Cuish AC, Campbell CJ, Duncan LJ *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 65-76, 1976 (Eng) DL/77MAR421

ORGAN CULTURE

REGULATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN UTERINE TISSUE IN ORGAN CULTURE. Keran EE, Barker KL *Endocrinology* 99: 1386-97, Nov 76 (Eng) DL/77MAR60

ORGANOWEIGHT

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. Pp 31-41. Strik JJ, de Jong HH, van Rijn van Alkemade JW, Wuite TP *In: Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 5941 1975. (Eng) [26] *DL/77MAR509*

ORNITHINE DECARBOXYLASE

ACTION OF PROLACTIN ON ORNITHINE DECARBOXYLASE ACTIVITY IN MAMMARY GLAND EXPLANTS OF MICE. Rillema JA *Endocr Res Commun* 3: 297-305, 1976 (Eng) DL/77MAR55

ORNITHINE DECARBOXYLASE IN RAT SMALL INTESTINE: STIMULATION WITH FOOD OR INSULIN. Maudsley DV, Leif I, Kobayashi Y *Am J Physiol* 231: 1557-61, Nov 76 (Eng) DL/77MAR452

Diabetes Literature—Keyword Index

OTITIS, EXTERNAL

- MALIGNANT EXTERNAL OTITIS.** Prasad U J *Laryngol Otol* 90: 963-5, Oct 76 (Eng) DL/77MAR194

OUTPATIENT

- OUTPATIENT MANAGEMENT OF THE JUVENILE DIABETIC.** Kennell C *Pediatr Nurs* 2: 19-20, 23, Nov-Dec 76 (Eng) DL/77MAR305

OVERWEIGHT

- [WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL.)** Schimmler W, Schuderer A, Kurz M *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

OXIDASE, GLUCOSE

- [DISADVANTAGES OF ACID PRECIPITATION OF PROTEINS DURING THE ASSAY OF BLOOD GLUCOSE BY THE ENZYMIC GLUCOSE OXIDASE-PEROXIDASE SYSTEM]** Van Hung ML *C R Acad Sci [D] (Paris)* 282: 751-4, 23 Feb 76 (Fre) *DL/77MAR492

OXIDATION

- QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE.** Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253

- REGULATION OF GLYCOLYSIS AND PYRUVATE OXIDATION IN CARDIAC MUSCLE.** Randle PJ *Circ Res* 38: i8-i15, May 76 (Eng) *DL/77MAR493

OXIDATION, GLUCOSE

- EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION.** Olefsky JM *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181

OXIDATIVE

- SURFACE SULPHYDRYL GROUPS AND PHAGOCYTOSIS-ASSOCIATED OXIDATIVE METABOLIC CHANGES IN HUMAN POLYMORPHONUCLEAR LEUCOCYTES.** Tsan MF, Newman B, McIntyre PA *Br J Haematol* 33: 189-204, Jun 76 (Eng) *DL/77MAR479

OXYGEN

- CEREBRAL UPTAKE OF GLUCOSE AND OXYGEN IN THE CAT BRAIN AFTER PROLONGED ISCHEMIA.** Hossmann KA, Sakaki S, Kimoto K *Stroke* 7: 301-5, May-Jun 76 (Eng) *DL/77MAR531

- CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE, AND AMINO ACIDS IN INFANTS.** Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

PANCREAS

- ISOLATION AND PRESERVATION OF ISLETS FROM THE MOUSE, RAT, GUINEA-PIG AND HUMAN PANCREAS.** Ferguson J, Allsopp RH,

- Taylor RM, Johnston ID *Br J Surg* 63: 767-73, Oct 76 (Eng) DL/77MAR13

- INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS.** Helmstaedt V, Feurle GE, Forssmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

- STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES.** Assan R, Plouin PF, Girard JR, Slama G, Hauteauvent M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

- KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE.** Vague P, Ramahandridona G, Di Campo-Rougerie C, Mahmoud F *Diabete Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

- INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION.** Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1123-8, Dec 76 (Eng) DL/77MAR128

- FLUORESCENCE HISTOCHEMICAL STUDY OF THE PANCREAS IN THE CAT.** Onda M *Gastroenterol Jpn* 11: 246-61, 1976 (Eng) DL/77MAR131

- HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART 1—THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN.** Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

- ULTRASTRUCTURAL LOCALIZATION OF ADENYL CYCLASE ACTIVITY IN THE PANCREAS OF TWO AMPHIBIAN SPECIES (SALAMANDRA SALAMANDRA L. AND RANA ESCULENTA L.).** Trandaburu T *Histochemistry* 48: 1-6, 30 Jul 76 (Eng) DL/77MAR165

- LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION.** PP, 363-72. Hollande E, Giron BJ, Lambre C *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975.* (Eng) DL/77MAR189

- PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS.** SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

- CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS.** Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

- INSULIN SECRETION BY HUMAN PANCREAS CULTURED FOR ONE YEAR.** Hollande E, Giron BJ, Rey F, Dutrillaux MC *J Physiol (Paris)* 72: 815-32, Nov 76 (Eng) DL/77MAR212

- [MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY]** Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388

- TRANSPLANTATION OF THE PANCREAS.** Lilheci RC, Ruiz JO, Aquino C, Goetz F *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 303-20, 1976 (Eng) DL/77MAR419

- A HISTOPATHOLOGICAL STUDY ON THE ISLETS OF LANGERHANS AND DUCTAL**

- EPITHELIAL METAPLASIA IN ATROPHIC LOBULI OF PANCREAS.** Suda K, Komatsu K, Hashimoto K *Acta Pathol Jpn* 26: 561-72, Sep 76 (Eng) DL/77MAR429

PANCREAS, DUCT LIGATED

- SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE.** Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

PANCREAS, ENDOCRINE

- [NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY]** Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D] (Paris)* 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

- HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION.** Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

PANCREAS, PERFUSED

- [HEMODYNAMICS, METABOLISM AND FUNCTION OF THE PERFUSED PANCREAS UNDER NORMAL TEMPERATURE]** Meyer W, Petersen H Z *Exp Chir* 9: 113-9, 1976 (Ger) DL/77MAR391

PANCREATECTOMY

- GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS.** Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

- [SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATECTOMIZED PATIENTS (AUTHORS TRANSL.)]** Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

- [EFFECT OF GLUCAGON ADMINISTRATION ON BLOOD GLUCOSE LEVEL IN TOTALLY DEPANCREATIZED DOGS (AUTHORS TRANSL.)]** Nishimura I *Arch Jpn Chir* 45: 390-7, 1 Sep 76 (Jpn) DL/77MAR467

PANCREATIC

- [INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES]** Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

- DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE.** Patel YC, Orci L, Bankier A, Cameron DP *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

- PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK.** Foltzer C, Leclercq-Meyer V, Mi-alhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

- PANCREATIC APUD CELLS IN OLDER CHICK EMBRYOS, WITH SPECIAL REFERENCE TO THEIR IDENTITY.** Andrew A *Histochemistry* 49: 213-9, 29 Oct 76 (Eng) DL/77MAR166

Diabetes Literature—Keyword Index

PANCREATIC

PANCREATIC ALLOGRAFT

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH WITH DIABETES. Groth CG, Lundgren G, Arner P, Colliste H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

PANCREATIC BETA CELL

DYNAMIC CHARACTERISTICS OF ELECTRICAL ACTIVITY IN PANCREATIC BETA-CELLS. I - EFFECTS OF CALCIUM AND MAGNESIUM REMOVAL. Atwater I, Beigelman PM *J Physiol (Paris)* 72: 769-86, Nov 76 (Eng) DL/77MAR208

[ARTIFICIAL PANCREATIC BETA CELLS--THE PRESENT STATUS AND PROSPECT] Shichiri M, Kawamori T, Goriya Y, Shigeta Y *Jpn J Clin Med* 34: 2886-93, 10 Sep 76 (Jpn) DL/77MAR224

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

PANCREATIC CELL

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PANCREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

PANCREATIC DISEASE

[CLINICAL SIGNIFICANCE OF THE TESTS USED IN THE DIAGNOSIS OF PANCREATIC DISEASES] Lenti G, Emanuelli G *Minerva Med* 67: 3661-70, 14 Nov 76 (Ita) DL/77MAR289

PANCREATIC GLUCAGON

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL)] Ruitton A, Frederich F *Diabete Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

PANCREATIC GRAFT

RESTITUTION OF STREPTOZOTOCIN INDUCED DIABETES MELLITUS IN NUDE MICE WITH PANCREATIC GRAFTS FROM THE RAT. Buschard K, Rygaard J *Acta Pathol Microbiol Scand [C]* 84: 221-6, Jun 76 (Eng) DL/77MAR431

PANCREATIC ISLET

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A, Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76 (Eng) DL/77MAR75

PREPARATION AND CHARACTERIZATION OF PLASMA MEMBRANE-ENRICHED FRACTIONS FROM RAT PANCREATIC ISLETS. Lernmark A, Nathans A, Steiner DF *J Cell Biol* 71: 606-23, Nov 76 (Eng) DL/77MAR168

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hoyer BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Re-

nold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

STUDIES ON THE FUNCTION OF PANCREATIC ISLET CELL MEMBRANES. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *J Physiol (Paris)* 72: 729-46, Nov 76 (Eng) DL/77MAR205

ELECTRICAL CHARACTERISTICS OF THE BETA-CELLS IN PANCREATIC ISLETS. Meissner HP *J Physiol (Paris)* 72: 757-67, Nov 76 (Eng) DL/77MAR207

PANCREATIC ISLET-CELL AUTOIMMUNITY [LETTER]. Del Prete GF, Betterle C, Bersani G, Romano M, Tiengo A *Lancet* 2: 1090, 13 Nov 76 (Eng) DL/77MAR239

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *Pfluegers Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

PASSIVE ENHANCEMENT OF ISOLATED PANCREATIC ISLET ALLOGRAFTS. Finch DR, Morris PJ *Transplantation* 22: 508-12, Nov 76 (Eng) DL/77MAR362

TISSUE CULTURE OF ISOLATED PANCREATIC ISLETS. Andersson A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 283-94, 1976 (Eng) [58] DL/77MAR417

PANCREATIC ISLET ANTIBODY

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

PANCREATIC MESENCHYME

[APPEARANCE OF GLUCAGON-PRODUCING CELLS IN THE ENDODERM OF THE ALLANTOIS ASSOCIATED WITH INTESTINAL AND PANCREATIC MESENCHYME] Yasugi S *C R Acad Sci [D] (Paris)* 283: 383-5, 13 Sep 76 (Fre) DL/77MAR38

PANCREATIC TISSUE

INSULIN OF INDIAN SHEEP & GOAT PANCREATIC TISSUE-ISOLATION AND CONTENT. Yadava HS, Ali Z *Indian J Exp Biol* 14: 90-4, Mar 76 (Eng) DL/77MAR155

PANCREATITIS, ACUTE

[THERAPY OF ACUTE PANCREATITIS] Muller-Wieland K *Dtsch Med Wochenschr* 101: 1729-31, 19 Nov 76 (Ger) DL/77MAR51

PANCREATITIS, CHRONIC

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

PARATHORMONE

IN VITRO SYNTHESIS OF AMYLOID FIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E *Isr J Med Sci* 12: 1137-40, Oct 76 (Eng) DL/77MAR1

PARENT

WHAT MIDDLE-AGED MEN KNOW OF THEIR PARENTS CAUSE OF DEATH AND AGE AT DEATH. A COMPARISON BETWEEN HISTORY AND DEATH CERTIFICATE. Waern U, Hedstrand H, Aberg H *Scand J Soc Med* 4: 123-9, 1976 (Eng) DL/77MAR336

PARKINSONISM DEMENTIA

ABNORMAL CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA ON GUAM. Koerner DR *Diabetes* 25: 1055-65, Nov 76 (Eng) DL/77MAR120

PARS PLANA

VITREORETINAL AND ANTERIOR SEGMENT SURGERY THROUGH THE PARS PLANA: PART I. Michels RG *Ann Ophthalmol* 8: 133-81, Nov 76 (Eng) DL/77MAR461

PATHOGENESIS

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospichal J, Bernat M, Starka L, Vomachla V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

PATHOGENESIS AND CHARACTERIZATION OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. Emmanouel DS, Jaspán JL, Kuku SF, Rubenstein AH, Katz AI, Huen AH *J Clin Invest* 58: 1266-72, Nov 76 (Eng) DL/77MAR177

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

[HYPERTRIGLYCERIDEMIA IN RATS FOLLOWING GLUCOSE INFUSION--AN ANIMAL EXPERIMENT MODEL FOR THE STUDY OF TYPE IV HYPERLIPIDEMIA PATHOGENESIS] Heuck CC *Verh Dtsch Ges Inn Med* 81: 1446-9, 1975 (Ger) *DL/77MAR538

PEPTIDE

THE CHEMISTRY OF TRYPTOPHAN IN PEPTIDES AND PROTEINS. Fontana A, Toniolo C *Fortschr Chem Org Naturst* 33: 309-449, 1976 (Eng) [467] DL/77MAR141

C-PEPTIDE

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

PEPTIDE, CONNECTING

CONNECTING (C)-PEPTIDE--A SPIN-OFF OF INSULIN SECRETION [EDITORIAL]. Vaisrub S *JAMA* 236: 2888, 20 Dec 76 (Eng) DL/77MAR220

PERFUSED PANCREAS

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND

Diabetes Literature—Keyword Index

TOLBUTAMIDE. Vague P, Ramahandridona G, Di CampoRougerie C, Mahmoud F *Diabete Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

[HEMODYNAMICS, METABOLISM AND FUNCTION OF THE PERFUSED PANCREAS UNDER NORMAL TEMPERATURE] Meyer W, Petersen H *Z Exp Chir* 9: 113-9, 1976 (Ger) DL/77MAR391

PERFUSION

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, ODorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

PERIFUSION

STUDY OF GLUCAGON SECRETION USING IN VITRO PERIFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

EFFECT OF ANTECEDENT HORMONE ADMINISTRATION ON LIPOLYSIS IN THE PERFUSED ISOLATED FAT CELL. Solomon SS, Duckworth WC *J Lab Clin Med* 88: 984-94, Dec 76 (Eng) DL/77MAR193

PERINATAL PERIOD

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL.)] Girard J, Ferre P, Gilbert M *Diabete Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106

[BEHAVIOR OF CALCIUM, INORGANIC PHOSPHORUS, MAGNESIUM AND GLUCOSE CONCENTRATIONS IN THE PLASMA OF EWES IN THE PERINATAL PERIOD] Brenner K, Seidel H *Arch Exp Veterinaermed* 29: 939-45, Dec 75 (Ger) *DL/77MAR553

PERIODONTICS

PERIODONTIS AND DIABETES. Scopp IW *NY Dent* 47: 9-11, Jan 77 (Eng) DL/77MAR294

PERIODONTIUM

[CHANGES IN BLOOD CONSTITUENTS IN RATS AT 1,800 M ALTITUDE AND EFFECT ON PERIODONTIUM] Bessede M, Worbe JF *C R Soc Biol (Paris)* 169: 1224-6, 1975 (Fre) *DL/77MAR491

PERMEABILITY

EFFECT OF ALLOXAN ON ISLET TISSUE PERMEABILITY: PROTECTION AND REVERSAL BY DITHIOLS. Watkins D, Cooperstein SJ *J Pharmacol Exp Ther* 199: 575-82, Dec 76 (Eng) DL/77MAR201

PEROXIDASE

[DISADVANTAGES OF ACID PRECIPITATION OF PROTEINS DURING THE ASSAY OF BLOOD GLUCOSE BY THE ENZYMIC GLUCOSE OXIDASE-PEROXIDASE SYSTEM] Van Hung ML *C R Acad Sci [D] (Paris)* 282: 751-4, 23 Feb 76 (Fre) *DL/77MAR492

PERSONALITY

[PERSONALITY AND SOCIAL BEHAVIOR OF ADULT DIABETICS] Lohmann R, Meuter F,

Petrides P, Gruneklee D *Med Welt* 27: 1997-2002, 15 Oct 76 (Ger) DL/77MAR250

PHAGOCYTE

PHAGOCYTIC AND MICROBICIDAL FUNCTION IN DIABETES MELLITUS. Bagdade JD *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 27-34, 1976 (Eng) DL/77MAR416

PHAGOCYTOSIS

SURFACE SULPHYDRYL GROUPS AND PHAGOCYTOSIS-ASSOCIATED OXIDATIVE METABOLIC CHANGES IN HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, McIntyre PA *Br J Haematol* 33: 189-204, Jun 76 (Eng) *DL/77MAR479

PHARMACOLOGICAL AGENT

PHARMACOLOGICAL AGENTS AND ACUTE EXPERIMENTAL HYPERLATAEMIA IN THE DOG [PROCEEDINGS]. Loubatieres AL, Ribes G, Valette G *Br J Pharmacol* 58: 429p, Nov 76 (Eng) DL/77MAR111

PHARMACOLOGY

PROCEEDINGS: PHARMACOLOGY OF BITIS ARIETANS VENOM. Gumaa KA, Osman OH *West Afr J Pharmacol Drug Res* 2: 92p-93p, Dec 74 (Eng) *DL/77MAR535

PHENFORMIN

CHARACTERIZATION OF PHENFORMIN AND METABOLITES IN PLASMA. Heuclin C, Pene F, Savouret JF, Assan R *Diabete Metab* 1: 234-40, Dec 75 (Eng) DL/77MAR105

EFFECT OF INSULIN, TOLBUTAMIDE AND PHENFORMIN ON THE SERUM GLYCOPROTEIN CONCENTRATION IN NORMAL RABBITS. Chempakam B, Kurup PA *Indian J Exp Biol* 14: 117-9, Mar 76 (Eng) DL/77MAR151

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, DAmico P, Pesant P, Matte R *Union Med Can* 105: 1810-4, Dec 76 (Fre) DL/77MAR364

PHENOTHIAZINE

PHOTOREDUCTION OF MEMBRANE BOUND CYTOCHROME C BY EXCITED-STATE PHENOTHIAZINE. Vanderkooi JM *Biochem Biophys Res Commun* 69: 1043-9, 19 Apr 76 (Eng) *DL/77MAR559

PHLEGMON

[PHLEGMON OF THE LARYNX IN A PATIENT WITH DIABETES COMPLICATED BY MEDIASTINITIS] Khasanov SA *Zh Ushn Nos Gorl Bolezn* 102-3, Sep-Oct 76 (Rus) DL/77MAR396

PHLORHIZIN

EFFECT OF PHLORHIZIN ON GLUCOSE TRANSPORT IN THE INNER EAR. Takeda T, Makimoto K, Murata K, Suehiro S, Iwai H *Acta Otolaryngol (Stockh)* 81: 424-8, May-Jun 76 (Eng) *DL/77MAR541

PHOSPHATIDYLCHOLINE

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau

PHOSPHORYLATION

A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

PHOSPHOENOLPYRUVATE CARBOXYKINASE

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochem Med* 14: 355-67, Dec 75 (Eng) *DL/77MAR557

PHOSPHOLIPASE D

IS PHOSPHOLIPASE D REALLY AN ENZYME A COMPARISON OF IN SITU AND IN VITRO ACTIVITIES. Roughan PG, Slack CR *Biochim Biophys Acta* 431: 86-95, 22 Apr 76 (Eng) *DL/77MAR487

PHOSPHOLIPID

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOOD CELLS. Rousselet A, Guthmann C, Matricon J, Bienvenue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

PHOSPHOLIPID METABOLISM

EARLY EFFECTS OF SERUM ON PHOSPHOLIPID METABOLISM IN UNTRANSFORMED AND ONCOGENIC VIRUS-TRANSFORMED CULTURED FIBROBLASTS. Ciechanover A, Hershko A *Biochem Biophys Res Commun* 73: 85-91, 8 Nov 76 (Eng) DL/77MAR475

PHOSPHORUS

[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

PHOSPHORUS, INORGANIC

[BEHAVIOR OF CALCIUM, INORGANIC PHOSPHORUS, MAGNESIUM AND GLUCOSE CONCENTRATIONS IN THE PLASMA OF EWES IN THE PERINATAL PERIOD] Brenner K, Seidel H *Arch Exp Veterinaermed* 29: 939-45, Dec 75 (Ger) *DL/77MAR553

PHOSPHORYLATION

PHOSPHORYLATION REACTIONS IN ISLETS OF LANGERHANS. Muller WA, Amherdt ML, Vachon AC, Renold AE *J Physiol (Paris)* 72: 711-20, Nov 76 (Eng) DL/77MAR203

PHOSPHORYLATION

PHOTOCOAGULATION

RUBY LASER PHOTOCOAGULATION OF PROLIFERATING DIABETIC RETINOPATHY: FIFTH-YEAR FOLLOWUP. Aiello LM, Briones JC *Int Ophthalmol Clin* 16: 15-27, Winter 76 (Eng) DL/77MAR159

PHOTOCOAGULATION IN DIABETIC RETINOPATHY. Arribas NP, Johnston GP, Okun E *Int Ophthalmol Clin* 16: 59-77, Winter 76 (Eng) DL/77MAR160

[DIABETIC RETINOPATHY TREATED WITH PHOTOCOAGULATION] Ogielka E, Baran L, Huszcza A *Klin Oczna* 46: 1277-9, Nov 76 (Pol) DL/77MAR232

[PANRETINOPHOTOCOAGULATION] Bonnet M, Pingault C, Grange JD *Klin Oczna* 46: 1289-92, Nov 76 (Pol) DL/77MAR233

[DIABETIC RETINOPATHY: DOCUMENTATION, EVALUATION OF ITS COURSE AND POSSIBILITIES OF TREATMENT BY PHOTOCOAGULATION] Korner F *Schweiz Med Wochenschr* 106: 1035-40, 31 Jul 76 (Ger) DL/77MAR341

PHOTOCOAGULATION, ARGON LASER

COMPLICATIONS OF ARGON LASER RETINAL PHOTOCOAGULATION: A FIVE-YEAR STUDY. Little HL *Int Ophthalmol Clin* 16: 145-59, Winter 76 (Eng) DL/77MAR158

ARGON LASER PHOTOCOAGULATION OF PROLIFERATIVE DIABETIC RETINOPATHY. Little HL *Int Ophthalmol Clin* 16: 79-103, Winter 76 (Eng) DL/77MAR161

TECHNIQUES OF ARGON LASER PHOTOCOAGULATION OF DIABETIC DISK NEW VESSELS. Little HL, Zweng HC, Jack RL, Vassiliadis A *Am J Ophthalmol* 82: 675-83, Nov 76 (Eng) DL/77MAR447

PHOTOREDUCTION

PHOTOREDUCTION OF MEMBRANE BOUND CYTOCHROME C BY EXCITED-STATE PHENOTHIAZINE. Vanderkooi JM *Biochem Biophys Res Commun* 69: 1043-9, 19 Apr 76 (Eng) *DL/77MAR559

PHYSICAL

[SYNDROME OF PHYSICAL AND GENITAL INFANTILISM IN CHILDREN WITH SEVERE FORMS OF DIABETES MELLITUS] Martynova MI, Lapchenko LN, Luzianina GA *Vopr Okhr Materin Det* 21: 3-7, Aug 76 (Rus) DL/77MAR377

PHYSICAL ACTIVITY

THE EFFECT OF RESTRICTION OF PHYSICAL ACTIVITY ON ADAPTATION TO PROLONGED EXERCISE IN DOGS. Pohoska E *Acta Physiol Pol* 27: 199-202, Mar-Apr 76 (Eng) *DL/77MAR544

PIMOZIDE

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGinine AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Willms B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

PITUITARY

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN

THE DUCK. Foltz C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

[SOMATOTROPIC FUNCTION OF THE PITUITARY IN OBESITY] Epshtein EV *Vrach Delo* 105-8, Jul 76 (Rus) DL/77MAR382

LETTER: HYPOTHALAMIC/PITUITARY/ADRENAL FUNCTION IN PATIENTS ON CHEMOTHERAPY. Anonymous *Lancet* 1: 1238-9, 5 Jun 76 (Eng) *DL/77MAR520

PLACENTA

[SUBMICROSCOPIC PICTURE OF THE PLACENTA IN DIABETIC MOTHERS (AUTHORS TRANSL)] Krausova H, Zidovsky J *Cesk Gynecol* 41: 564-5, Oct 76 (Cze) DL/77MAR32

LOCALIZATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) BY IMMUNOHISTOCHEMICAL METHOD IN NORMAL AND PATHOLOGICAL HUMAN PLACENTA. PP. 373-8. Genbacev O, Sulovic V *In0 Feldman C, et al, ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2* 1975. (Eng) DL/77MAR188

PLACENTAL LACTOGEN

PREDICTION OF FETAL OUTCOME BY URINARY ESTRIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHAFETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

PLANARIAN

[CONTROL OF THE REGENERATION OF SMALL PIECES OF THE PLANARIAN DUGESIA TIGRINA BY CYLIC AMP AND GMP NUCLEOTIDES] Lenicque PM *C R Acad Sci [D] (Paris)* 283: 1317-9, 8 NOV 76 (Fre) DL/77MAR35

PLASMA

CHANGES IN PLASMA AND URINE MAGNESIUM FOLLOWING SUBCUTANEOUS INSULIN. Lindsay R *Curr Med Res Opin* 4: 296-302, 1976 (Eng) DL/77MAR45

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

CHARACTERIZATION OF PHENFORMIN AND METABOLITES IN PLASMA. Heuclin C, Pene F, Savouret JF, Assan R *Diabete Metab* 1: 234-40, Dec 75 (Eng) DL/77MAR105

ISOTOPE-DERIVATIVE MEASUREMENTS OF PLASMA NOREPINEPHRINE AND EPINEPHRINE IN MAN. Cryer PE *Diabetes* 25: 1071-82, Nov 76 (Eng) [52] DL/77MAR122

EFFECT OF DILUTION ON IMMUNOREACTIVE INSULIN ACTIVITY OF HUMAN PLASMA. Sankaran H, Harrington MG Jr *J Med Sci* 145: 359-68, Nov 76 (Eng) DL/77MAR164

INSULIN COMA THERAPY: DECREASE OF PLASMA TRYPTOPHAN IN MAN. Baumann P, M.Gaillard J *J Neural Transm* 39: 309-13, 1976 (Eng) DL/77MAR198

[EFFECTS OF SOMATOSTATIN ON PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebutti A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

PLASMA VOLUMES AND ENTRAPMENT OF PLASMA IN TISSUES OF NORMAL AND INSULIN-IMMUNIZED GUINEA PIGS. Wright PH, Williams V *Proc Soc Exp Biol Med* 153: 92-7, Oct 76 (Eng) DL/77MAR324

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruet ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

[PLASMA LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *An Esp Pediatr* 9: 512-8, Sep-Oct 76 (Esp) DL/77MAR458

INDIVIDUAL FREE FATTY ACIDS IN AMNIOTIC FLUID AND IN PLASMA OF PREGNANT WOMEN. Hagenfeldt L, Hagenfeldt K *Br J Obstet Gynaecol* 83: 383-6, May 76 (Eng) *DL/77MAR481

EFFECT OF VASOTOCIN ON PLASMA GLUCOSE, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVELS IN RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jun-Mar 76 (Eng) *DL/77MAR505

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jong HH, van Rij van Alkemade JW, Wuite TP *In0 Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 S941* 1975. (Eng) [26] *DL/77MAR509

[BEHAVIOR OF CALCIUM, INORGANIC PHOSPHORUS, MAGNESIUM AND GLUCOSE CONCENTRATIONS IN THE PLASMA OF EWES IN THE PERINATAL PERIOD] Brenner K, Seidel H *Arch Exp Veterinaermed* 29: 939-45, Dec 75 (Ger) *DL/77MAR553

PLASMA AMINO ACID

PLASMA AMINO ACIDS IN PATIENTS WITH THE CARCINOID SYNDROME. Feldman JM, Plonk JW, Admiraal J, Sidbury, JB *Cancer* 38: 2127-31, Nov 76 (Eng) DL/77MAR28

PLASMA CHOLESTEROL

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Singer H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R *Wien Med Wochenschr* 125: 6114, 17 Oct 75 (Ger) *DL/77MAR536

Diabetes Literature—Keyword Index

PLASMA FREE FATTY ACID

EFFECTS OF NOREPINEPHRINE AND THYKOXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Moriya K, Makiyama H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

PLASMA GLUCAGON

PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

PLASMA GLUCOSE

SCREENING FOR GESTATIONAL DIABETES BY PLASMA GLUCOSE LEVELS [LETTER]. Amankwah KS *Am J Obstet Gynecol* 126: 1052, 15 Dec 76 (Eng) DL/77MAR446

A RAPID METHOD FOR THE MEASUREMENT OF PLASMA GLUCOSE CONCENTRATION. Telfer Brunton WA, Percy-Robb IW *Clin Chim Acta* 69: 131-5, 17 May 76 (Eng) *DL/77MAR494

PLASMA INSULIN

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Sicolo N, Scandellari C *Diabetes Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

PLASMA INSULIN LEVELS IN TELEOSTS DETERMINED BY A CHARCOAL-SEPARATION RADIOIMMUNOASSAY TECHNIQUE. Thorpe A, Ince BW *Gen Comp Endocrinol* 30: 332-9, Nov 76 (Eng) DL/77MAR134

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

PLASMA MEMBRANE

PREPARATION AND CHARACTERIZATION OF PLASMA MEMBRANE-ENRICHED FRACTIONS FROM RAT PANCREATIC ISLETS. Lernmark A, Nathans A, Steiner DF *J Cell Biol* 71: 606-23, Nov 76 (Eng) DL/77MAR168

PLASMA PROTEIN

THE ROLE OF THE KIDNEY IN THE METABOLISM OF PLASMA PROTEINS. PP. 392-405. Strober W, Waldmann TA *In* Giovanetti S, et al., ed. *Sixth international congress of nephrology*. Basel, Karger, 1976. W3 IN446 1975a. (Eng) [27] DL/77MAR191

PLASMA RENIN

[THE EFFECTS OF CALCITONIN, GLUCAGON AND THE DIBUTYRYL DERIVATIVE OF CYCLIC AMP ON PLASMA-RENIN ACTIVITY (AUTHORS TRANSL)] Werning C, Stiel D *Dtsch Med Wochenschr* 101: 1690-2, 12 Nov 76 (Ger) DL/77MAR49

PLASMA VOLUME

PLASMA VOLUMES AND ENTRAPMENT OF PLASMA IN TISSUES OF NORMAL AND INSULIN-IMMUNIZED GUINEA PIGS. Wright PH, Williams V *Proc Soc Exp Biol Med* 153: 92-7, Oct 76 (Eng) DL/77MAR324

PLATELET FUNCTION

IN VIVO PLATELET FUNCTION IN DIABETES MELLITUS. Fleischman AI, Bierenbaum ML, Stier A, Somol H, Watson PB *Thromb Res* 9: 467-71, Nov 76 (Eng) DL/77MAR359

PNEUMOPERITONEUM

PNEUMOPERITONEUM AND RIGHT UPPER QUADRANT GAS IN A DIABETIC MAN. Butler CF, Fred HL, Carlson V *JAMA* 236: 2789-90, 13 Dec 76 (Eng) DL/77MAR219

POISONING

THE BIOCHEMICAL BASIS OF JAMAICAN AKEE POISONING. Billington D, Osmundsen H, Sherratt HS *N Engl J Med* 295: 1482, 23 Dec 76 (Eng) DL/77MAR267

POLYARTERITIS NODOSA

POLYARTERITIS NODOSA INDUCED IN ARTERIOSCLEROTIC, MALE AND FEMALE BREEDER RATS BY CHRONIC ALLOXAN DIABETES. Wexler BC *Paroi Arterielle* 2: 221-39, May 75 (Eng) DL/77MAR302

POLYENDOCRINE

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

POLYMETHYL-GALACTURONASE

PRODUCTION OF POLYMETHYL-GALACTURONASE AND CELLULASE AND ITS RELATIONSHIP WITH VIRULENCE IN ISOLATES OF SCLEROTINIA SCLEROTIUM (LIB.) DE BARY. Rai JN, Dhawan S *Indian J Exp Biol* 14: 196-7, Mar 76 (Eng) DL/77MAR154

POLYMORPHONUCLEAR LEUKOCYTE

SURFACE SULPHYDRYL GROUPS AND PHAGOCYTOSIS-ASSOCIATED OXIDATIVE METABOLIC CHANGES IN HUMAN POLYMORPHONUCLEAR LEUKOCYTES. Tsan MF, Newman B, McIntyre PA *Br J Haematol* 33: 189-204, Jun 76 (Eng) *DL/77MAR479

SURFACE SULPHYDRYL GROUPS AND HEXOSE MONOPHOSPHATE PATHWAY ACTIVITY IN RESTING HUMAN POLYMORPHONUCLEAR LEUKOCYTES. Tsan MF, Newman B, Chusid MJ, Wolff SM, McIntyre PA *Br J Haematol* 33: 205-11, Jun 76 (Eng) *DL/77MAR480

EFFECT OF NITRO BLUE TETRAZOLIUM DYE ON THE HEXOSE MONOPHOSPHATE SHUNT ACTIVITY OF HUMAN POLYMORPHONUCLEAR LEUKOCYTES. DeChatelet LR, Shirley PS *Biochem Med* 14: 391-8, Dec 75 (Eng) *DL/77MAR558

POLYNEUROPATHY

[DECOMPRESSION OF INDIVIDUAL NERVES IN ANATOMICAL STRICTURES IN POLYNEUROPATHIES] Skorpil V *Handchirurgie* 8: 127-8, 1976 (Ger) DL/77MAR140

POLYPEPTIDE, GASTRIC INHIBITORY

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, O'Dorisio TM, Cataland S, Mekhjian

PRECLINICAL

HS, Caldwell JH, Mazzaferrri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

PORTAL

PORTAL VENOUS GOODIES AND FULMINANT VIRAL HEPATITIS [EDITORIAL]. Sherlock S *N Engl J Med* 295: 1535-6, 30 Dec 76 (Eng) DL/77MAR269

PORTAL GLUCOSE

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENERVATION TO AFFECT FOOD INTAKE IN DOGS. Belinger LL, Trietley GJ, Bernardis LL *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

POSTEMBEDDING STAINING

SOME PROBLEMS INVOLVED IN POSTEMBEDDING STAINING. PP. 109-15. Vogt A, Tkamiya H, Kim WA *In* Feldman C, et al., ed. *Immunocytochemical techniques*. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR190

POSTOPERATIVE

ENDOGENOUS CALORIC SOURCES AND NITROGEN BALANCE: REGULATION IN POSTOPERATIVE PATIENTS. Gazzaniga AB, Day AT, Barlett RH, Wilson AF *Arch Surg* 111: 1357-61, Dec 76 (Eng) DL/77MAR468

POTASSIUM

POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY. Machtey I, Syrkis I, Nissimov MR, Lobel H *J Am Geriatr Soc* 24: 534-7, Dec 76 (Eng) DL/77MAR185

POTASSIUM ION

EVIDENCE AGAINST H₂ AND K₂ AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *In* Betz E, ed. *Ionic actions on vascular smooth muscle*. Berlin, Springer, 1976. W3 SY732 1976i. (Eng) DL/77MAR187

POTASSIUM IONS AND INSULIN RELEASE. Henquin JC, Lambert AE *J Physiol (Paris)* 72: 747-56, Nov 76 (Eng) DL/77MAR206

PRACTITIONER

RESEARCH FINDINGS OF POTENTIAL VALUE TO THE PRACTITIONER. Anonymous *JAMA* 237: 19-20, 3 Jan 77 (Eng) DL/77MAR221

PRECIPITATION

[DISADVANTAGES OF ACID PRECIPITATION OF PROTEINS DURING THE ASSAY OF BLOOD GLUCOSE BY THE ENZYMIC GLUCOSE OXIDASE-PEROXIDASE SYSTEM] Van Hung ML *C R Acad Sci [D] (Paris)* 282: 751-4, 23 Feb 76 (Fre) *DL/77MAR492

PRECLINICAL

[PRECLINICAL DIAGNOSIS OF DIABETIC NEPHROPATHIES WITH THE AID OF RADIOINDICATION METHODS] Leshchinskii LA, Losaberdidze BB, Pimenov LT *Ter Arkh* 48: 73-9, 1976 (Rus) DL/77MAR356

Diabetes Literature—Keyword Index

PRECOMA

PRECOMA

[TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL)] Luft D, Schubert WR, Reichenmiller HE *Dtsch Med Wochenschr* 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

PRECURSOR

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE *FEBS Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

PREDIABETES

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

[SOME CHARACTERISTICS OF LACTATION IN WOMEN WITH RENAL GLYCOSURIA AND PREDIABETES] Kolodina LN *Akush Ginekol (Mosk)* 65-6, Jun 76 (Rus) DL/77MAR454

PREGNANCY

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R *Diabetes* 25: 1118-22, Dec 76 (Eng) DL/77MAR127

PREDICTION OF FETAL OUTCOME BY URINARY ESTRIOLE, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHAFETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

ISOLATED ACTH DEFICIENCY AND PREGNANCY. Satterfield RG, Williamson HO, Facog *Obstet Gynecol* 48: 693-6, Dec 76 (Eng) DL/77MAR298

[CREATININE DURING PREGNANCY (AUTHORS TRANSL)] Gitsch E *Wien Klin Wochenschr* 88: 740-2, 26 Nov 76 (Ger) DL/77MAR387

HISTOENZYMATIC EXAMINATION OF TROPHOBLAST FROM EARLY PREGNANCY COMPLICATED BY DIABETES MELLITUS. Liebhart M, Janczewska E, Klosinska-Kita E *Acta Med Pol* 17: 175-82, 1976 (Eng) DL/77MAR436

PREGNANT WOMAN

[DIAGNOSIS OF CHRONIC PYELONEPHRITIS IN PREGNANT WOMEN WITH DIABETES MELLITUS] Vasileva ZV, Vtorova VG, Rodoman VE *Vopr Okhr Materin Det* 21: 79-81, Apr 76 (Rus) DL/77MAR374

[LIPID SPECTRUM OF BLOOD IN PREGNANT WOMEN WITH DIABETES MELLITUS] Griaznova IM, Kniazev IuA, Vtorova VG, Sebkov TV *Vopr Okhr Materin Det* 21: 75-8, Aug 76 (Rus) DL/77MAR379

INDIVIDUAL FREE FATTY ACIDS IN AMNIOTIC FLUID AND IN PLASMA OF PREGNANT WOMEN. Hagenfeldt L, Hagenfeldt K *Br J Obstet Gynaecol* 83: 383-6, May 76 (Eng) *DL/77MAR481

PRESERVATION ISLET

ISOLATION AND PRESERVATION OF ISLETS FROM THE MOUSE, RAT, GUINEA-PIG AND

HUMAN PANCREAS. Ferguson J, Allsopp RH, Taylor RM, Johnston ID *Br J Surg* 63: 767-73, Oct 76 (Eng) DL/77MAR13

PRESSURE, ARTERIAL

ARTERIAL PRESSURE IN CLINICALLY APARENT DIABETICS. Keen H, Track NS, Sowry GS *Diabetes Metab* 1: 159-78, Sep 75 (Eng) DL/77MAR98

PROINSULIN

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE *FEBS Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

SEPARATION OF THE TWO DOUBLE-CHAIN BOVINE INTERMEDIATES OF THE PROINSULIN-INSULIN CONVERSION I. CHEMICAL, IMMUNOCHEMICAL, CIRCULAR DICHROISM, AND BIOLOGICAL CHARACTERIZATION. Markussen J, Heding LG *Int J Pept Protein Res* 8: 597-606, 1976 (Eng) DL/77MAR156

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JJ, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

[PROINSULIN] Labadie P *Rev Prat* 26: 3856-60, 21 Nov 76 (Fre) DL/77MAR333

PROLACTIN

PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HORMONE-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-9, Sep 76 (Eng) DL/77MAR42

ACTION OF PROLACTIN ON ORNITHINE DECARBOXYLASE ACTIVITY IN MAMMARY GLAND EXPLANTS OF MICE. Rillema JA *Endocr Res Commun* 3: 297-305, 1976 (Eng) DL/77MAR55

PROPRANOLOL

EFFECT OF PROPRANOLOL ON THYROXINE-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS. Uscilko HK, Brzezinska Z, Greenleaf JE *Acta Physiol Pol* 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543

PROSTAGLANDIN E1

CYCLIC AMP CONTROL BY PROSTAGLANDIN E1 IN NON-PARENCHYMAL LIVER CELLS. Ferretti E, Biondi C, Tomasi V *FEBS Lett* 69: 70-4, 15 Oct 76 (Eng) DL/77MAR74

PROTEASE

PROTEASE I FROM ESCHERICHIA COLI. SOME PHYSICO-CHEMICAL PROPERTIES AND SUBSTRATE SPECIFICITY. Pacaud M, Sibilli S, Bras G *Eur J Biochem* 69: 141-51, 1 Oct 76 (Eng) DL/77MAR65

PROTEIN

NEUROCHEMICAL CORRELATES OF ALLOXAN DIABETES: PROTEIN AND RIBONUCLEIC ACID LEVELS IN THE DIFFERENT REGIONS OF THE RAT BRAIN. Jayashree C, Nayeemunnisa *Experientia* 32: 1412-3, 15 Nov 76 (Eng) DL/77MAR71

THE CHEMISTRY OF TRYPTOPHAN IN PEPTIDES AND PROTEINS. Fontana A, Toniolo C *Fortschr Chem Org Naturst* 33: 309-449, 1976 (Eng) [467] DL/77MAR141

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

[DISADVANTAGES OF ACID PRECIPITATION OF PROTEINS DURING THE ASSAY OF BLOOD GLUCOSE BY THE ENZYMIC GLUCOSE OXIDASE-PEROXIDASE SYSTEM] Van Hung ML *C R Acad Sci [D] (Paris)* 282: 751-4, 23 Feb 76 (Fre) *DL/77MAR492

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H *Verh Dtsch Ges Inn Med* 81: 1411-3, 1975 (Ger) *DL/77MAR537

PROTEIN, PLASMA

THE ROLE OF THE KIDNEY IN THE METABOLISM OF PLASMA PROTEINS. P. 392-405. Strober W, Waldmann TA *Int J Gastroenterol* 1: 392-405, 1976. W3 IN446 1975a. (Eng) [27] DL/77MAR191

PROTEIN SYNTHESIS

PROTEIN SYNTHESIS IN CELL-FREE SYSTEMS FROM TOTALLY ISCHEMIC RAT MYOCARDIUM. Hinterberger U, Wollenberg A *Recent Adv Stud Cardiac Struct Metab* 7: 341, 1975 (Eng) *DL/77MAR529

PSYCHOGENIAS

CERTAIN BIOCHEMICAL PARAMETERS OF PSYCHOGENIAS. PP. 541-6. Ivanov NA *Int J Psychiatry* 13: 541-6, 1976. W3 IN446 1975a. (Eng) *DL/77MAR510

PSYCHONEUROENDOCRINOLOGY

PERSPECTIVES IN PSYCHONEUROENDOCRINOLOGY. Smythies JR *Psychoneuroendocrinology* 1: 317-9, 1976 (Eng) DL/77MAR330

PULMONARY TUBERCULOSIS

[VOCATIONAL REHABILITATION OF PATIENTS WITH DIABETES MELLITUS WHO HAVE UNDERGONE SURGERY FOR PULMONARY TUBERCULOSIS] Iatsozhinskii IuI, Petraniuk EI, Molotkov VN, Kriuchkov VE *Vrach Delo* 108-11, Jul 76 (Rus) DL/77MAR381

[WAYS OF IMPROVING THE DISPENSARIZATION AND SPECIALIZED TREATMENT OF PATIENTS WITH PULMONARY TUBERCULOSIS AND CONCOMITANT DIABETES MELLITUS] Rudin VP, Chuprina MF, Kovalchuk FT *Vrach Delo* 46-7, Jul 76 (Rus) DL/77MAR385

PYELONEPHRITIS

[DIAGNOSIS OF CHRONIC PYELONEPHRITIS IN PREGNANT WOMEN WITH DIABETES MELLITUS] Vasileva ZV, Vtorova VG, Rodoman VE *Vopr Okhr Materin Det* 21: 79-81, Apr 76 (Rus) DL/77MAR374

PYRIDINE

THE STRUCTURE OF HAEM IN PYRIDINE/WATER MIXTURES AND ITS IMPLICATION IN STUDIES OF HAEM CATABOLISM. Brown SB, King RF *Biochem J* 153: 479-83, 1 Feb 76 (Eng) *DL/77MAR555

Diabetes Literature—Keyword Index

RENAL CORTEX

PYRUVATE

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

PYRUVATE CARRIER

HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN RELATION TO GLUCONEOGENESIS AND LIPOGENESIS. Titheradge MA, Coore HG *FEBS Lett* 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76

PYRUVATE KINASE

UV DIFFERENCE SPECTROSCOPIC STUDIES OF THE INTERACTION OF ALLOSTERIC LIGANDS AND NEUROSPORA PYRUVATE KINASE. Obrien MD, Kapoor M *FEBS Lett* 58: 366-9, 15 Oct 75 (Eng) *DL/77MAR502

PYRUVATE OXIDATION

REGULATION OF GLYCOLYSIS AND PYRUVATE OXIDATION IN CARDIAC MUSCLE. Randle PJ *Circ Res* 38: i8-15, May 76 (Eng) *DL/77MAR493

RADIOIMMUNOASSAY

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL)] Ruiton A, Frederich F *Diabete Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

PLASMA INSULIN LEVELS IN TELEOSTS DETERMINED BY A CHARCOAL-SEPARATION RADIOIMMUNOASSAY TECHNIQUE. Thorpe A, Ince BW *Gen Comp Endocrinol* 30: 332-9, Nov 76 (Eng) DL/77MAR134

RADIOIMMUNOLOGY

[INFLUENCE OF HEPARIN ON THE RADIOIMMUNOLOGICAL ASSAY OF INSULIN] Schaller K, Harmeyer J, Partale V *Dtsch Tierarztl Wochenschr* 83: 436-8, 5 Oct 76 (Ger) DL/77MAR54

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189*

RADIOINDICATION METHOD

[PRECLINICAL DIAGNOSIS OF DIABETIC NEPHROPATHIES WITH THE AID OF RADIOINDICATION METHODS] Leshchinskii LA, Losaberidze BB, Pimenov LT *Ter Arkh* 48: 73-9, 1976 (Rus) DL/77MAR356

RAGE

THE NEUROLOGY OF EXPLOSIVE RAGE. THE DYSCONTROL SYNDROME. Elliott FA *Practitioner* 217: 51-60, Jul 76 (Eng) DL/77MAR318

RECEPTOR

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF

125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

RECEPTOR, DOPAMINE

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Mistry HR, Wilms B, Koberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

RECEPTOR, INSULIN

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL)] Freychet P *Diabete Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77MAR86

THE INSULIN RECEPTOR: ITS ROLE IN INSULIN RESISTANCE OF OBESITY AND DIABETES. Olefsky JM *Diabetes* 25: 1154-62, Dec 76 (Eng) [83] DL/77MAR130

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gordon P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBESE HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

CHARACTERIZATION OF ANTIBODIES TO THE INSULIN RECEPTOR: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. Flier JS, Kahn CR, Jarrett DB, Roth J *J Clin Invest* 58: 1442-9, Dec 76 (Eng) DL/77MAR180

EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION. Olefsky JM *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

RED BLOOD CELL

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOOD CELLS. Rousselet A, Guthmann C, Matricon J, Bienvenue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

REFEEDING

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gordon P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

REFLECTANCE METER

LETTER: ACCURACY OF BLOOD GLUCOSE MEASUREMENTS USING A REFLECTANCE METER. Anonymous *Med J Aust* 1: 414-5, 20 Mar 76 (Eng) *DL/77MAR521

REGENERATION

[CONTROL OF THE REGENERATION OF SMALL PIECES OF THE PLANARIAN DUGESIA TIGRINA BY CYCLIC AMP AND GMP NUCLEOTIDES] Lenicque PM *C R Acad Sci [D] (Paris)* 283: 1317-9, 8 NOV 76 (Fre) DL/77MAR35

REGENERATION OF ISLET CELLS. Hellerstrom C, Andersson A, Gunnarsson R *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 145-60, 1976 (Eng) [73] DL/77MAR406

REGULATORY ENZYME

GLYCEROLKINASE--A REGULATORY ENZYME OF GLUCONEOGENESIS Seitz HJ, Porsche E, Tarnowski W *Acta Biol Med Ger* 35: 141-54, 1976 (Eng) DL/77MAR400

REHABILITATION

[VOCATIONAL REHABILITATION OF PATIENTS WITH DIABETES MELLITUS WHO HAVE UNDERGONE SURGERY FOR PULMONARY TUBERCULOSIS] Iatsozhinskii IuD, Petraniuk EI, Molotkov VN, Kriuchkov VE *Vrach Delo* 108-11, Jul 76 (Rus) DL/77MAR383

REJECTION

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Collste H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

RENAL

RENAL MANIFESTATIONS OF SYSTEMIC DISEASES. Becker GJ *Med J Aust* 2: 345-7, 28 Aug 76 (Eng) DL/77MAR262

EFFECTS OF SUBSACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacaw S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochim Med* 14: 355-67, Dec 75 (Eng) *DL/77MAR557

RENAL CORTEX

REGULATORY CHARACTERISTICS OF AMINO ACID TRANSPORT IN NEWBORN RAT RENAL CORTEX CELLS. Reynolds RA, Segal S *Biochim Biophys Acta* 426: 513-25, 19 Mar 76 (Eng) *DL/77MAR486

Diabetes Literature—Keyword Index

RENAL CORTEX

RENAL FAILURE, ACUTE

THE ROLE OF INTRAVENOUS NUTRITION IN THE MANAGEMENT OF ACUTE RENAL FAILURE. Lee HA *S Afr Med J* 50: 1703-5, Oct 76 (Eng) DL/77MAR350

RENAL FUNCTION

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Naso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

LABORATORY EVALUATION OF RENAL FUNCTION. Greenhill A, Gruskin AB *Pediatr Clin North Am* 23: 661-79, Nov 76 (Eng) DL/77MAR304

RENAL GLYCOSURIA

[SOME CHARACTERISTICS OF LACTATION IN WOMEN WITH RENAL GLYCOSURIA AND PREDIABETES] Kolodina LN *Akush Ginekol* (Mosk) 65-6, Jun 76 (Rus) DL/77MAR454

RENAL TRANSPLANT

HEARING LOSS IN PATIENTS WITH DIALYSIS AND RENAL TRANSPLANTS. Quick CA *Ann Otol Rhinol Laryngol* 85: 776-90, Nov-Dec 76 (Eng) DL/77MAR462

THE EFFECTS OF LONG-TERM ALTERNATE-DAY STEROIDS ON PARAMETERS OF ADRENAL FUNCTION IN RENAL TRANSPLANT PATIENTS. Keogh B, Chu TM, Murphy GP *J Urol* 115: 487-9, May 76 (Eng) *DL/77MAR516

RENIN

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

RENIN, PLASMA

[THE EFFECTS OF CALCITONIN, GLUCAGON AND THE DIBUTYRYL DERIVATIVE OF CYCLIC AMP ON PLASMA-RENIN ACTIVITY (AUTHORS TRANSL)] Werning C, Stiel D *Dtsch Med Wochenschr* 101: 1690-2, 12 Nov 76 (Ger) DL/77MAR49

RENIN SECRETION

SUPPRESSION OF RENIN SECRETION IN THE ISOLATED RAT KIDNEY BY CYCLOHEXIMIDE. Vandongen R *Eur J Pharmacol* 40: 179-81, Nov 76 (Eng) DL/77MAR68

RESISTANCE, INSULIN

INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HERMORRHAGIC SHOCK. Chaudry IH, Sayeed MM, Baue AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

THE INSULIN RECEPTOR: ITS ROLE IN INSULIN RESISTANCE OF OBESITY AND DIABETES. Olefsky JM *Diabetes* 25: 1154-62, Dec 76 (Eng) [83] DL/77MAR130

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

RESTING

SURFACE SULPHYDRYL GROUPS AND HEX-OSE MONOPHOSPHATE PATHWAY ACTIVITY IN RESTING HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, Chusid MJ, Wolff SM, McIntyre PA *Br J Haematol* 33: 205-11, Jun 76 (Eng) *DL/77MAR480

RETINAL

[PRELIMINARY EXPERIENCES IN THE TREATMENT OF RETINAL DISEASES WITH ARGON LASER] Pecoldowa K, Kaluzny J *Klin Oczna* 46: 1305-11, Nov 76 (Pol) DL/77MAR234

RETINAL LESION

DIABETIC RETINOPATHY STUDY. ASSESSMENT AND COMPARISON OF RETINAL LESIONS FOR COMPUTER ANALYSIS. Koerner F, Eichenseher N, Koerner U *Albrecht von Graefes Arch Klin Ophthalmol* 201: 47-56, 18 Nov 76 (Eng) DL/77MAR456

RETINAL PHOTOCOAGULATION

COMPLICATIONS OF ARGON LASER RETINAL PHOTOCOAGULATION: A FIVE-YEAR STUDY. Little HL *Int Ophthalmol Clin* 16: 145-59, Winter 76 (Eng) DL/77MAR158

RETINOPATHY, DIABETIC

LEUCOCYTE-MIGRATION INHIBITION INDUCED BY UVEORETINAL ANTIGEN IN PATIENTS WITH DIABETIC RETINOPATHY. Aviner Z, Henley WL, Okas S, Leopold IH *Diabetes* 25: 1106-9, Dec 76 (Eng) DL/77MAR125

PHOTOCOAGULATION IN DIABETIC RETINOPATHY. Arribas NP, Johnston GP, Okun E *Int Ophthalmol Clin* 16: 59-77, Winter 76 (Eng) DL/77MAR160

[DIABETIC RETINOPATHY TREATED WITH PHOTOCOAGULATION] Ogieska E, Baran L, Huszcza A *Klin Oczna* 46: 1277-9, Nov 76 (Pol) DL/77MAR232

DIABETIC RETINOPATHY AND BLOOD-SUGAR [LETTER]. Katsilambros N *Lancet* 2: 1253, 4 Dec 76 (Eng) DL/77MAR245

TREATMENT OF DIABETIC RETINOPATHY. Anonymous *Med Lett Drugs Ther* 18: 107-8, Dec 76 (Eng) DL/77MAR264

[DIABETIC RETINOPATHY; FACTS AND SPECULATIONS] Fankhauser F *Schweiz Med Wochenschr* 106: 1029-34, 31 Jul 76 (Ger) DL/77MAR340

[DIABETIC RETINOPATHY: DOCUMENTATION, EVALUATION OF ITS COURSE AND POSSIBILITIES OF TREATMENT BY PHOTOCOAGULATION] Korner F *Schweiz Med Wochenschr* 106: 1035-40, 31 Jul 76 (Ger) DL/77MAR341

[CORRELATIONS BETWEEN CLINICAL FINDINGS AND THERAPEUTIC MEASURES AND THE COURSE OF DIABETIC RETINOPATHY] Teuscher A *Schweiz Med Wochenschr* 106: 1041-5, 31 Jul 76 (Ger) DL/77MAR342

VARIABLES IN CONTROLLED STUDIES OF DIABETIC RETINOPATHY. Geeraets WJ, Carroll WW *Va Med* 103: 806-10, Nov 76 (Eng) DL/77MAR394

DIABETIC RETINOPATHY STUDY [LETTER]. Anonymous *Am Fam Physician* 14: 29, Dec 76 (Eng) DL/77MAR439

DIABETIC RETINOPATHY STUDY. ASSESSMENT AND COMPARISON OF RETINAL LE-

SIONS FOR COMPUTER ANALYSIS. Koerner F, Eichenseher N, Koerner U *Albrecht von Graefes Arch Klin Ophthalmol* 201: 47-56, 18 Nov 76 (Eng) DL/77MAR456

RETINOPATHY, PROLIFERATIVE

RAPID ONSET OF PROLIFERATIVE RETINOPATHY IN YOUNG INSULIN-DEPENDENT DIABETICS. Steel JM, Shenfield GM, Duncan LJ *Br Med J* 2: 852, 9 Oct 76 (Eng) DL/77MAR15

RUBY LASER PHOTOCOAGULATION OF PROLIFERATING DIABETIC RETINOPATHY: FIFTH-YEAR FOLLOWUP. Aiello LM, Briones JC *Int Ophthalmol Clin* 16: 15-27, Winter 76 (Eng) DL/77MAR159

ARGON LASER PHOTOCOAGULATION OF PROLIFERATIVE DIABETIC RETINOPATHY. Little HL *Int Ophthalmol Clin* 16: 79-103, Winter 76 (Eng) DL/77MAR161

REVASCULARIZATION

REVASCULARIZATION OF THE PERONEAL ARTERY. Dardik H, Ibrahim IM, Sprayregen S, Dardik I *Surg Gynecol Obstet* 143: 946-8, Dec 76 (Eng) DL/77MAR354

REVIEW

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL)] Freychet P *Diabete Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77MAR86

[DIABETES MELLITUS SECONDARY TO LIVER DISEASES. A REVIEW (AUTHORS TRANSL)] Guillon J, Charbonnel B *Diabete Metab* 1: 191-9, Sep 75 (Fre) [58] DL/77MAR101

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL)] Luyckx A *Diabete Metab* 1: 201-4, Sep 75 (Fre) [64] DL/77MAR102

DIETARY AND MEDICAL TREATMENTS OF OBESITY: AN EVALUATIVE REVIEW. Chloverakis C *Addict Behav* 1: 3-21, Jul 75 (Eng) DL/77MAR437

REYES SYNDROME

REYES SYNDROME AND VIRAL KETOACIDOSIS [LETTER]. Aiyathurai JE *Lancet* 2: 1253, 4 Dec 76 (Eng) DL/77MAR246

RHYTHM, DIURNAL

THE EFFECTS OF D,L-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE. PP. 165-71. Walker CA, Charlton CG *Ino Singh JM, Lal H, ed. Drug addiction. Vol 40 New aspects of analytical and clinical toxicology. New York: Stratton, 1974. W3 IN917KC 1973d. (Eng) *DL/77MAR511*

RIBONUCLEIC ACID

NEUROCHEMICAL CORRELATES OF ALLOXAN DIABETES: PROTEIN AND RIBONUCLEIC ACID LEVELS IN THE DIFFERENT REGIONS OF THE RAT BRAIN. Jayashree C, Nayeemunnisa *Experientia* 32: 1412-3, 15 Nov 76 (Eng) DL/77MAR71

EVIDENCES FOR A CORRELATION BETWEEN HIPPOCAMPAL RNA AND LEARNING. Izquierdo I *Acta Physiol Lat Am* 25: 324-31, 1975 (Eng) DL/77MAR432

RIFADIN

[DIABETES MELLITUS INDUCED BY RIFADIN] Bilyk MA *Vrach Delo* 111-2, Jul 76 (Rus) DL/77MAR384

Diabetes Literature—Keyword Index

SERUM

[EFFECT OF MINERAL WATER ON THE SECRETION OF INSULIN IN AN ACUTE EXPERIMENT] Horni J, Vodna J *Fysiatr Reumatol Vestn* 54: 236-42, Oct 76 (Cze) DL/77MAR145

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189*

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210

INSULIN SECRETION BY HUMAN PANCREAS CULTURED FOR ONE YEAR. Hollande E, Giron BJ, Rey F, Dutrillaux MC *J Physiol (Paris)* 72: 815-32, Nov 76 (Eng) DL/77MAR212

CONNECTING (C)-PEPTIDE—A SPIN-OFF OF INSULIN SECRETION [EDITORIAL]. Vaisrub S *JAMA* 236: 2888, 20 Dec 76 (Eng) DL/77MAR220

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijk B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng) DL/77MAR433

SECRETION, RENIN

SUPPRESSION OF RENIN SECRETION IN THE ISOLATED RAT KIDNEY BY CYCLOHEXIMIDE. Vandongen R *Eur J Pharmacol* 40: 179-81, Nov 76 (Eng) DL/77MAR68

SECRETION, TRIGLYCERIDE

STRESS-INDUCED INHIBITION OF TRIGLYCERIDE SECRETION IN VIVO SAND RATS (PSAMMOMYS OBUSUS). Robertson RP, Smith PH *Metabolism* 25: 1583-90, Dec 76 (Eng) DL/77MAR254

SEIZURE

SEIZURES AFTER THE AGE OF SIXTY. Carney LR *Practitioner* 217: 74-81, Jul 76 (Eng) DL/77MAR320

SEROTONIN

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijk B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng) DL/77MAR433

SERUM

SERUM-FREE CULTIVATION OF THYMUS ORGAN FRAGMENTS. Lumb JR, George YS *Fed Proc* 35: 2555-8, Dec 76 (Eng) DL/77MAR77

[DETERMINATION OF SERUM MAGNESIUM] Yoshida M, Ohno J *Jpn J Clin Med* 34 suppl: 2024-35, 1976 (Jpn) DL/77MAR227

[DETERMINATION OF SERUM AND URINARY CYCLIC AMP AND GMP] Kimura H *Jpn J Clin Med* 34 suppl: 2369-70, 1976 (Jpn) [80] DL/77MAR230

PREDICTION OF FETAL OUTCOME BY URINARY ESTRIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHAFETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

RISK

TRANSPLANTATION VERSUS DIALYSIS IN HIGH RISK PATIENTS. PP. 702-9. Kjellstrand CM, Mauer SM, Shideman JR, Simmons RL, Buselmeier TJ, Najarian JS *Ino Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a. (Eng) DL/77MAR192*

[BILE COMPOSITION IN PATIENTS WITH HIGH RISK OF CHOLELITHIASIS] Ponz De Leon M, Ferenderes R, Carulli N *Minerva Med* 67: 3483-90, 3 Nov 76 (Ita) DL/77MAR284

[RESULTS OF LONG TERM USE OF A LOW DOSE ESTROPROGESTATIN IN DIABETICS AND HIGH RISK WOMEN] Perlemuter L, Hazard J, Jouin-Caurier D, Clipet M *Nouv Presse Med* 5: 2853-6, 11 Dec 76 (Fre) DL/77MAR312

RISK FACTOR

[RISK FACTORS OF ARTERIOSCLEROSIS IN PATIENTS WITH SEVERE BRADYCARDIA ARRHYTHMIAS] Hasselbacher C, Wahl P, Thorpecken R, Nussel E *Z Kardiol* 65: 890-6, Oct 76 (Ger) DL/77MAR393

UNRECOGNIZED MYOCARDIAL INFARCTION: FIVE-YEAR INCIDENCE, MORTALITY, AND RISK FACTORS. Medalie JH, Goldbourt U *Ann Intern Med* 84: 526-31, May 76 (Eng) *DL/77MAR552

RISK FACTOR, CORONARY

[STUDIES ON CLINICAL PREDICTION OF MYOCARDIAL INFARCTION: QUANTIFICATIONS OF CORONARY RISK FACTORS (AUTHORS TRANSL)] Kato K *Jpn Circ J* 40: 1041-3, 1055-66, Sep 76 (Jpn) DL/77MAR222

URBAN TRAFFIC NOISE, CARDIOCIRCULATORY ACTIVITY AND CORONARY RISK FACTORS. di Cantogno L, Dallerba R, Teagno PS, Cocola L *Acta Otolaryngol [Suppl] (Stockh)* 0: 55-63, 1976 (Eng) DL/77MAR426

RNA

SEERIBONUCLEIC ACID

RUMANIA

[EPIDEMIOLOGICAL STUDIES CONCERNING DIABETES MELLITUS IN RUMANIA. PREMISES, METHODOLOGY AND RESULTS] Mincou I, Dumitrescu C, Stanesco J *Med Interne* 14: 241-51, Oct-Dec 76 (Fre) DL/77MAR334

RURAL

DIABETES SEMINAR FOR THE PUBLIC IN A RURAL AREA IN UTAH. Gines D *J Am Diet Assoc* 69: 651-2, Dec 76 (Eng) DL/77MAR184

SACRAL AGENESIS

SACRAL AGENESIS. ANALYSIS OF 22 CASES. White RI, Klauber GT *Urology* 8: 521-5, Dec 76 (Eng) DL/77MAR365

SALBUTAMOL

[SOME METABOLIC EFFECTS OF SALBUTAMOL] Fassio V, Massara F, Camanni F, Martina V *Minerva Med* 67: 3267, 20 Oct 76 (Ita) DL/77MAR282

SAND RAT

STRESS-INDUCED INHIBITION OF TRIGLYCERIDE SECRETION IN VIVO SAND RATS (PSAMMOMYS OBUSUS). Robertson RP, Smith PH *Metabolism* 25: 1583-90, Dec 76 (Eng) DL/77MAR254

SAUNA

CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lammintausta R, Syvalahti E, Pekkarinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

SCORPION

METABOLISM OF GLYCOGEN IN THE SCORPION HETEROMETRUS SCABER (THOR.). Vijayalekshmi NR, Kurup PA *Indian J Exp Biol* 14: 124-6, Mar 76 (Eng) DL/77MAR152

SCREENING

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

SCREENING FOR GESTATIONAL DIABETES BY PLASMA GLUCOSE LEVELS [LETTER]. Amankwah KS *Am J Obstet Gynecol* 126: 1052, 15 Dec 76 (Eng) DL/77MAR446

SECRETION

QUANTITATIVE ASPECTS OF SECRETION AND HEPATIC REMOVAL OF GLUCAGON IN SHEEP. Brockman RP, Manns JG, Bergman EN *Can J Physiol Pharmacol* 54: 666-70, Oct 76 (Eng) DL/77MAR23

SECRETION, GASTRIC ACID

MECHANISM OF INHIBITION OF GASTRIC ACID SECRETION BY HYPERTONIC SOLUTIONS AND VASOPRESSIN. Limlomwongse L, Nophakoon J, Thithapandha A *Pluegers Arch* 366: 159-65, 5 Nov 76 (Eng) DL/77MAR309

SECRETION, GLUCAGON

INTERACTION OF CALCIUM AND GLUCOSE ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

SECRETION, INSULIN

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

SERUM GLUCAGON

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emsa S, Svensson SO, Dornier M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

GROWTH OF RABBIT AORTIC SMOOTH MUSCLE CELLS IN SERUM FROM PATIENTS WITH JUVENILE DIABETES. Ledet T *Acta Pathol Microbiol Scand [A]* 84: 508-16, Nov 76 (Eng) DL/77MAR430

EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS. Berdianier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440

A SEMIAUTOMATED METHOD FOR THE ESTIMATION OF SERUM HAPToglobIN LEVELS. Shepherd DN, Jonsson A *Biochem Med* 16: 152-6, Oct 76 (Eng) DL/77MAR473

EARLY EFFECTS OF SERUM ON PHOSPHOLIPID METABOLISM IN UN-TRANSFORMED AND ONCOGENIC VIRUS-TRANSFORMED CULTURED FIBROBLASTS. Ciechanover A, Hershko A *Biochem Biophys Res Commun* 73: 85-91, 8 Nov 76 (Eng) DL/77MAR475

DOPAMINE-BETA-HYDROXYLASE ACTIVITY IN SERUM FOLLOWING ACUTE MYOCARDIAL INFARCTION: AN EVALUATION OF THIS PARAMETER FOR ROUTINE USE AS AN INDEX OF SYMPATHETIC ACTIVITY. Gutteberg T, Borud O, Stromme JH *Clin Chim Acta* 69: 61-6, 17 May 76 (Eng) *DL/77MAR495

SERUM GLUCAGON

[DETERMINATION OF SERUM GLUCAGON] Morita S, Baba S *Jpn J Clin Med* 34 suppl: 2290-8, 1976 (Jpn) [68] DL/77MAR229

SERUM GLUCOSE

[DETERMINATION OF SERUM GLUCOSE AND INTERPRETATION OF GLUCOSE TOLERANCE TEST] Sano T, Abe M *Jpn J Clin Med* 34 suppl: 1874-88, 1976 (Jpn) DL/77MAR225

SERUM GLYCOPROTEIN

EFFECT OF INSULIN, TOLBUTAMIDE AND PHENFORMIN ON THE SERUM GLYCOPROTEIN CONCENTRATION IN NORMAL RABBITS. Chempakam B, Kurup PA *Indian J Exp Biol* 14: 117-9, Mar 76 (Eng) DL/77MAR151

SERUM INSULIN

[DETERMINATION OF SERUM INSULIN (AND CPR)] Nakagawa S *Jpn J Clin Med* 34 suppl: 2281-9, 1976 (Jpn) [127] DL/77MAR228

SERUM TRIGLYCERIDE

[DETERMINATION OF SERUM TRIGLYCERIDES] Fukui I, Soyama K, Takano K, Kushihiro H, Masaki K *Jpn J Clin Med* 34 suppl: 1910-24, 1976 (Jpn) DL/77MAR226

SEXUALITY

EFFECT OF INHIBITORS OF STEROL BIOSYNTHESIS ON GROWTH AND SEXUALITY OF PYTHIUM AND ZYGORHYNCHUS. Child JJ, Haskins RH *Mycopathologia* 59: 91-3, 24 Sep 76 (Eng) DL/77MAR270

SHOCK, HEMORRHAGIC

INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HERMORRHAGIC SHOCK. Chaudry IH, Sayeed MM, Baue AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

GLUCOSE AND INSULIN RESPONSES IN SHEEP SUBJECTED TO A SECOND EPISODE OF HEMORRHAGIC SHOCK. Fritz SD, Fitts CT, Colwell JA *Am Surg* 42: 899-907, Dec 76 (Eng) DL/77MAR457

SIBLING

[PLASMA LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *Am Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

SIMULATION

SIMULATION STUDY OF CONTROL OF HEPATIC GLYCOGEN SYNTHESIS BY GLUCOSE AND INSULIN. El-Refai M, Bergman RN *Am J Physiol* 231: 1608-19, Nov 76 (Eng) DL/77MAR453

SKELETAL MUSCLE

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBESE-HYPERGLYCEMIC (OB/OB) MICE. Cuendet GS, Loten EG, Jeanrenaud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

SKIN

PROPERTIES OF TOAD SKIN NA-K-ATPASE WITH SPECIAL REFERENCE TO EFFECT OF TEMPERATURE. Park YS, Hong SK *Am J Physiol* 231: 1356-63, Nov 76 (Eng) DL/77MAR449

SKIN IN SYSTEMIC DISEASE. Turner TW *Aust Fam Physician* 5: 890-6, 901, 905, Aug 76 (Eng) DL/77MAR472

LETTER: EFFECT OF SKIN-CLEANING AGENTS ON DEXTROSTIX READINGS. Ball SG, Hughes AS *Br Med J* 1: 1279, 22 May 76 (Eng) *DL/77MAR489

SKIN RASH

SKIN RASH IN PATIENT RECEIVING GLUCAGON [LETTER]. Barber SG, Hamer JD *Lancet* 2: 1138, 20 Nov 76 (Eng) DL/77MAR243

SMALL INTESTINE

SMALL INTESTINAL TRANSIT IN DIABETICS. Scarpello JH, Greaves M, Sladen GE *Br Med J* 2: 1225-6, 20 Nov 76 (Eng) DL/77MAR20

ORNITHINE DECARBOXYLASE IN RAT SMALL INTESTINE: STIMULATION WITH FOOD OR INSULIN. Maudsley DV, Leif J, Kobayashi Y *Am J Physiol* 231: 1557-61, Nov 76 (Eng) DL/77MAR452

SODIUM PUMPS AND GALACTOSE TRANSFER IN THE SHORT-CIRCUITED SMALL INTESTINE. Ude JF, Barry RJ *Experientia* 32: 188-90, 15 Feb 76 (Eng) *DL/77MAR500

SMOOTH MUSCLE CELL

GROWTH OF RABBIT AORTIC SMOOTH MUSCLE CELLS IN SERUM FROM PATIENTS WITH JUVENILE DIABETES. Ledet T *Acta Pathol Microbiol Scand [A]* 84: 508-16, Nov 76 (Eng) DL/77MAR430

LIPID ACCUMULATION IN HUMAN AORTIC SMOOTH MUSCLE CELL LYSOSOMES. Coltoff-Schiller B, Goldfischer S, Wolinsky H, Factor SM *Am J Pathol* 83: 39-44, Apr 76 (Eng) *DL/77MAR549

SOCIAL BEHAVIOR

[PERSONALITY AND SOCIAL BEHAVIOR OF ADULT DIABETICS] Lohmann R, Meuter F, Petrides P, Gruneklee D *Med Welt* 27: 1997, 2002, 15 Oct 76 (Ger) DL/77MAR250

SODIUM

BLOOD-BRAIN BARRIER STUDIES IN THE RAT: AN INDICATOR DILUTION TECHNIQUE WITH TRACER SODIUM AS AN INTERNAL STANDARD FOR ESTIMATION OF EXTRACEREBRAL CONTAMINATION. Hertz MM, Bolwig TG *Brain Res* 107: 333-43, May 76 (Eng) *DL/77MAR490

SODIUM PUMP

SODIUM PUMPS AND GALACTOSE TRANSFER IN THE SHORT-CIRCUITED SMALL INTESTINE. Ude JF, Barry RJ *Experientia* 32: 188-90, 15 Feb 76 (Eng) *DL/77MAR500

SOLEUS MUSCLE

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBESE-HYPERGLYCEMIC (OB/OB) MICE. Cuendet GS, Loten EG, Jeanrenaud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173

SOMATOMEDIN

PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HORMONE-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 549, Sep 76 (Eng) DL/77MAR42

SOMATOSTATIN

INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ISLET CELLS IN THE EQUINE PANCREAS. Helmsstaedt V, Feurle GE, Forstmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE. Patel YC, Orci L, Bankier A, Cameron DP *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Heller R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

INFLUENCE OF SOMATOSTATIN ON CARBOHYDRATE DISPOSAL AND ABSORPTION IN DIABETES MELLITUS. Wahren J *Lancet* 2: 1213-6, 4 Dec 76 (Eng) DL/77MAR244

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATICTOMIZED PATIENTS (AUTHORS TRANSL)] Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

SOMATOSTATIN INHIBITION

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

SOMATOSTATIN INHIBITION OF GLUCAGON-STIMULATED ADENOSINE 3-5-MONOPHOSPHATE ACCUMULATION IN ISOLATED HEPATOCYTES. Oliver JR, Long K, Wagle SR, Allen DO *Proc Soc Exp Biol Med* 153: 367-9, Nov 76 (Eng) DL/77MAR327

SOMATOTROPIC CELL

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPIC CELLS OF THE HUMAN HYPHYSIS] Legros F, Massant B, Uytendhoef P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

SOMATOTROPIC FUNCTION

[SOMATOTROPIC FUNCTION OF THE PITUITARY IN OBESITY] Epshtein EV *Vrach Delo* 105-8, Jul 76 (Rus) DL/77MAR382

SOMATOTROPIN

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

SORBITOL PATHWAY

ABSENCE OF THE SORBITOL PATHWAY IN EPIDERMIS. Roelfzema H, van den Hurk JJ, Mier PD *Br J Dermatol* 94: 577-8, May 76 (Eng) *DL/77MAR478

SPECIES

ULTRASTRUCTURAL LOCALIZATION OF ADENYL CYCLASE ACTIVITY IN THE PANCREAS OF TWO AMPHIBIAN SPECIES (SALAMANDRA SALAMANDRA L. AND RANA ESCULENTA L.). Trandaburu T *Histochemistry* 48: 1-6, 30 Jul 76 (Eng) DL/77MAR165

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

SPECTROSCOPY

UV DIFFERENCE SPECTROSCOPIC STUDIES OF THE INTERACTION OF ALLOSTERIC LIGANDS AND NEUROSPORA PYRUVATE KINASE. Obrien MD, Kapoor M *FEBS Lett* 58: 366-9, 15 Oct 75 (Eng) *DL/77MAR502

SPIN LABELED

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOOD CELLS. Rousselet A, Guthmann C, Matricon J, Bienvenue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

SPINAL CORD

EFFECT OF HIGH LEVEL SECTION OF THE SPINAL CORD ON THE CYCLIC AMP SYSTEM IN RAT LIVER. Vaptzarova K, Hanoun J *Biochim Biophys Acta* 444: 712-8, 22 Oct 76 (Eng) DL/77MAR7

SPONTANEOUS DIABETES

DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE. Patel YC, Orci L, Bankier A, Cameron DP *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

SPORTS

[SPORTS IN DIABETIC CHILDREN AND ADOLESCENTS IN THE GERMAN DEMOCRATIC REPUBLIC] Ludtke E, Haubenreiser H, Schukowski H *Aerzil Jugendkd* 67: 273-9, Oct 76 (Ger) DL/77MAR438

STAINING

SOME PROBLEMS INVOLVED IN POSTEMBEDDING STAINING. PP. 109-15. Vogt A, Tkamiya H, Kim WA *In0 Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 I35 no.2 1975. (Eng) DL/77MAR190*

STARVATION

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gorden P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

PHYSIOLOGICAL SIGNIFICANCE OF GLUCOCORTICIDS AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

STATISTICAL INTERPRETATION

[STATISTICAL RELATIONSHIPS BETWEEN FOOD SUPPLY AND THE MORTALITY OF SOME CHRONIC DEGENERATIVE DISEASES IN EIGHT INDUSTRIALLY DEVELOPED COUNTRIES] Haenel H, Ulbricht G, Oehmisch W, Erhardt V *Z Gesamte Hyg* 22: 748-58, 1976 (Ger) DL/77MAR390

STEROID

THE EFFECTS OF LONG-TERM ALTERNATE-DAY STEROIDS ON PARAMETERS OF ADRENAL FUNCTION IN RENAL TRANSPLANT PATIENTS. Keogh B, Chu TM, Murphy GP *J Urol* 115: 487-9, May 76 (Eng) *DL/77MAR516

[GLUCOSE METABOLISM DURING STEROID AND BIGUANIDE THERAPY USING TRITIATED GLUCOSE] Bottermann P, Schweigart U, Emmler R *Verh Dtsch Ges Inn Med* 81: 1481-4, 1975 (Ger) *DL/77MAR539

STOMACH MOTILITY

STOMACH MOTILITY IN INSULIN-TREATED SHEEP. Ali TM, Nicholson T, Singleton AG *Q J Exp Physiol* 61: 321-9, Oct 76 (Eng) DL/77MAR331

STOMACH, RESECTION

[LIPID AND GLUCOSE ABSORPTION AFTER VAGOTOMY WITH CONSERVATIVE RESECTION OF THE STOMACH] Postolov PM, Fetisov VA, Missiura NV *Vestn Khir* 114: 29-31, Jan 75 (Rus) *DL/77MAR533

STREPTOZOTOCIN

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

STREPTOZOTOCIN DIABETES

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerblom HK, Kivirikko KI *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMAIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblit PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

RESTITUTION OF STREPTOZOTOCIN INDUCED DIABETES MELLITUS IN NUDE MICE WITH PANCREATIC GRAFTS FROM THE RAT. Buschard K, Rygaard J *Acta Pathol Microbiol Scand [C]* 84: 221-6, Jun 76 (Eng) DL/77MAR431

STRESS

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaisse WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

STRESS-INDUCED

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

STRESS-INDUCED

STRESS-INDUCED INHIBITION OF TRIGLYCERIDE SECRETION IN VIVO SAND RATS (PSAMMOMYS OBESUS). Robertson RP, Smith PH *Metabolism* 25: 1583-90, Dec 76 (Eng) DL/77MAR254

STRIATE CORTEX

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Dos Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

SUBMICROSCOPY

[SUBMICROSCOPICAL PICTURE OF THE PLACENTA IN DIABETIC MOTHERS (AUTHORS TRANSL)] Krausova H, Zidovsky J *Cesk Gynecol* 41: 564-5, Oct 76 (Cze) DL/77MAR32

SUBSTRATE SPECIFICITY

PROTEASE I FROM ESCHERICHIA COLI. SOME PHYSICO-CHEMICAL PROPERTIES AND SUBSTRATE SPECIFICITY. Pacaud M, Sibilli S, Bras G *Eur J Biochem* 69: 141-51, 1 Oct 76 (Eng) DL/77MAR65

SUBUNIT STRUCTURE

THE SUBUNIT STRUCTURE OF GLYCOLYTIC ENZYMES. Ruth RC, Wold F *Comp Biochem Physiol* [B] 54: 1-6, 1976 (Eng) *DL/77MAR497

SUCROSE

DIETS FOR DIABETICS: NO ADDED SUCROSE [LETTER]. Trowell H *Br Med J* 2: 1196, 13 Nov 76 (Eng) DL/77MAR19

SUGAR

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL)] Schimmler W, Schuderetz A, Kurz M *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

[METHOD OF DETERMINING SUGAR IN THE BLOOD] Roberman NB *Probl Endokrinol (Mosk)* 22: 53-5, 1976 (Rus) *DL/77MAR524

SUGAR, BLOOD

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Linton SP, Scott PH, Kendall MJ *Br Med J* 2: 877-8, 9 Oct 76 (Eng) DL/77MAR16

DIABETIC RETINOPATHY AND BLOOD-SUGAR [LETTER]. Katsilambros N *Lancet* 2: 1253, 4 Dec 76 (Eng) DL/77MAR245

SUGAR TRANSPORT

THE PERFUSED ISOLATED LEFT ATRIUM: A PREPARATION FOR STUDIES ON SUGAR TRANSPORT IN THE MYOCARDIUM. Sawh PC, Bihler I *Can J Physiol Pharmacol* 54: 708-13, Oct 76 (Eng) DL/77MAR24

EFFECT OF ADRENALINE ON SUGAR TRANSPORT IN THE PERFUSED LEFT ATRIUM. Bihler I, Sawh PC *Can J Physiol Pharmacol* 54: 714-8, Oct 76 (Eng) DL/77MAR25

SUGAR, URINE

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JJ, Rosenbloom AL, Grgic A, Weber FT *Am J Dis Child* 130: 1324-7, Dec 76 (Eng) DL/77MAR443

SULFONAMIDE

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

SULFONYLUREA

GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS OF METHYLATION OF SULFONYLUREA DRUGS. Midha KK, Awang DV, McGilveray IJ *Biomed Mass Spectrom* 3: 100-9, Jun 76 (Eng) DL/77MAR9

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Sehlin J, Soderberg M, Täljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

SULFONYLUREAS—ACTION AND USES. Ferrer TM *Aust Fam Physician* 5: 865-6, Jul 76 (Eng) DL/77MAR470

SULPHYDRYL GROUP

SURFACE SULPHYDRYL GROUPS AND PHAGOCYTOSIS-ASSOCIATED OXIDATIVE METABOLIC CHANGES IN HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, McIntyre PA *Br J Haematol* 33: 189-204, Jun 76 (Eng) *DL/77MAR479

SURFACE SULPHYDRYL GROUPS AND HEXOSE MONOPHOSPHATE PATHWAY ACTIVITY IN RESTING HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, Chusid MJ, Wolff SM, McIntyre PA *Br J Haematol* 33: 205-11, Jun 76 (Eng) *DL/77MAR480

SURGERY

INTRAVENOUS FLUID THERAPY DURING PROLONGED SURGERY. Foster PA *S Afr Med J* 50: 1659-62, Oct 76 (Eng) DL/77MAR348

[VOCATIONAL REHABILITATION OF PATIENTS WITH DIABETES MELLITUS WHO HAVE UNDERGONE SURGERY FOR PULMONARY TUBERCULOSIS] Iatsozhinskii IuD, Petranik EL, Molotkov VN, Kriuchkov VE *Vrach Delo* 108-11, Jul 76 (Rus) DL/77MAR383

VITREORETINAL AND ANTERIOR SEGMENT SURGERY THROUGH THE PARS PLANA: PART I. Michels RG *Ann Ophthalmol* 8: 1353-81, Nov 76 (Eng) DL/77MAR461

[SURGICAL PROBLEMS IN THE TREATMENT OF DIABETICS. PRESENT STATE AND FUTURE PROSPECTS (AUTHORS TRANSL)] Reding R, Lorenz D *Ann Chir* 30: 811-6, Oct 76 (Fre) DL/77MAR463

SURVEY

[MYOCARDIAL INFARCT UNDER AGE 40. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

[PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES] Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccilli MP *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI *Vopr Okhr Materin Det* 21: 61-5, Apr 76 (Rus) DL/77MAR373

[SIDE EFFECTS AND COMPLICATIONS OF USE OF HORMONAL CONTRACEPTIVES (LITERATURE SURVEY)] Pytel IuA, Zolotarev II, Tsomyk VG, Datuashvili TD *Vopr Okhr Materin Det* 21: 79-81, Aug 76 (Rus) DL/77MAR380

SUSCEPTIBILITY

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

SYMPATHETIC

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

SYMPATHETIC ACTIVITY

CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lammintausta R, Syvalahti E, Pekkarinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

DOPAMINE-BETA-HYDROXYLASE ACTIVITY IN SERUM FOLLOWING ACUTE MYOCARDIAL INFARCTION: AN EVALUATION OF THIS PARAMETER FOR ROUTINE USE AS AN INDEX OF SYMPATHETIC ACTIVITY. Gutteberg T, Borud O, Stromme JH *Clin Chim Acta* 69: 61-6, 17 May 76 (Eng) *DL/77MAR495

SYMPATHETIC-ADRENAL SYSTEM

[STUDY OF THE EFFECT OF ULTRASOUND ON THE SYMPATHETIC-ADRENAL SYSTEM IN WORKERS] Gerasimova Elu *Gig Sanit* 23-4, Aug 76 (Rus) DL/77MAR139

SYMPTOM

[COLLAGEN DISEASES WITH MULTIPLE SYSTEMIC MANIFESTATIONS WITHOUT A BASIC SYMPTOM] Anonymous *Praxis* 65: 1167, 21 Sep 76 (Ger) DL/77MAR321

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

SYNDROME

PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HOR-

Diabetes Literature—Keyword Index

THIOL GROUP

MONO-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-9, Sep 76 (Eng) DL/77MAR42

ALLEVATION OF NARCOTIC WITHDRAWAL SYNDROME BY CONDITIONAL STIMULI. Lal H, Miksic S, Drawbaugh R, Numan R, Smith N Pavlov *J Biol Sci* 11: 251-62, Oct-Dec 76 (Eng) DL/77MAR303

THE NEUROLOGY OF EXPLOSIVE RAGE. THE DYSCONTROL SYNDROME. Elliott FA *Practitioner* 217: 51-60, Jul 76 (Eng) DL/77MAR318

[SYNDROME OF PHYSICAL AND GENITAL INFANTILISM IN CHILDREN WITH SEVERE FORMS OF DIABETES MELLITUS] Martynova MI, Lapchenko LN, Luzianina GA *Vopr Okhr Materin Det* 21: 3-7, Aug 76 (Rus) DL/77MAR377

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

SYNDROME, CARCINOID

PLASMA AMINO ACIDS IN PATIENTS WITH THE CARCINOID SYNDROME. Feldman JM, Plonk JW, Admiraal J, Sidbury, JB *Cancer* 38: 2127-31, Nov 76 (Eng) DL/77MAR28

SYNDROME, KIMMELSTIEL-WILSON

[THERAPY OF DIABETIC GLOMERULOSCLEROSIS (KIMMELSTIEL-WILSON SYNDROME)] Kuhlmann H *Dtsch Med Wochenschr* 101: 1769-72, 26 Nov 76 (Ger) DL/77MAR53

SYNDROME, REYES

REYES SYNDROME AND VIRAL KETOACIDOSIS [LETTER]. Aiyathurai JE *Lancet* 2: 1253, 4 Dec 76 (Eng) DL/77MAR246

SYNTHESIS

IN VITRO SYNTHESIS OF AMYLOIDFIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E *Isr J Med Sci* 12: 1137-40, Oct 76 (Eng) DL/77MAR1

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE *FEBS Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

SIMULATION STUDY OF CONTROL OF HEPATIC GLYCOGEN SYNTHESIS BY GLUCOSE AND INSULIN. El-Refai M, Bergman RN *Am J Physiol* 231: 1608-19, Nov 76 (Eng) DL/77MAR453

SYNTHESIS, PROTEIN

PROTEIN SYNTHESIS IN CELL-FREE SYSTEMS FROM TOTALLY ISCHEMIC RAT MYOCARDIUM. Hinterberger U, Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 7: 341-7, 1975 (Eng) *DL/77MAR529

SYSTEMIC DISEASE

RENAL MANIFESTATIONS OF SYSTEMIC DISEASES. Becker GJ *Med J Aust* 2: 345-7, 28 Aug 76 (Eng) DL/77MAR262

SKIN IN SYSTEMIC DISEASE. Turner TW *Aust Fam Physician* 5: 890-6, 901, 905, Aug 76 (Eng) DL/77MAR472

TELEOST

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PAN-

CREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

PLASMA INSULIN LEVELS IN TELEOSTS DETERMINED BY A CHARCOAL-SEPARATION RADIOIMMUNOASSAY TECHNIQUE. Thorpe A, Ince BW *Gen Comp Endocrinol* 30: 332-9, Nov 76 (Eng) DL/77MAR134

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I—THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

TEMPERATURE

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

[HEMODYNAMICS, METABOLISM AND FUNCTION OF THE PERFUSED PANCREAS UNDER NORMAL TEMPERATURE] Meyer W, Petersen H *Z Exp Chir* 9: 113-9, 1976 (Ger) DL/77MAR391

PROPERTIES OF TOAD SKIN NA-K-ATPASE WITH SPECIAL REFERENCE TO EFFECT OF TEMPERATURE. Park YS, Hong SK *Am J Physiol* 231: 1356-63, Nov 76 (Eng) DL/77MAR449

EFFECT OF PROPRANOLOL ON THYROXINE-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS. Uscilko HK, Brzezinska Z, Greenleaf JE *Acta Physiol Pol* 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543

TEST

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL.)] Dorchy H, Loeb H *Diabetes Metab* 1: 87-9, Jun 75 (Fre) DL/77MAR93

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

[DETERMINATION OF SERUM GLUCOSE AND INTERPRETATION OF GLUCOSE TOLERANCE TEST] Sano T, Abe M *Jpn J Clin Med* 34 suppl: 1874-88, 1976 (Jpn) DL/77MAR225

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ *Med J Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

[CLINICAL SIGNIFICANCE OF THE TESTS USED IN THE DIAGNOSIS OF PANCREATIC DISEASES] Lenti G, Emanuelli G *Minerva Med* 67: 3661-70, 14 Nov 76 (Ita) DL/77MAR289

THE HYDROPHOBIC ADSORPTION OF CHARGED MOLECULES TO BILAYER MEMBRANES: A TEST OF THE APPLICABILITY OF THE STERN EQUATION. McLaughlin S, Harary H *Biochemistry* 15: 1941-8, 4 May 76 (Eng) *DL/77MAR483

TETRAZOLIUM DYE, NITRO BLUE

EFFECT OF NITRO BLUE TETRAZOLIUM DYE ON THE HEXOSE MONOPHOSPHATE SHUNT ACTIVITY OF HUMAN POLYMORPHONUCLEAR LEUKOCYTES.

DeChatelet LR, Shirley PS *Biochem Med* 14: 391-8, Dec 75 (Eng) *DL/77MAR558

THERAPEUTIC

[THERAPEUTIC ACTION OF GLUCAGON ON PATHOLOGICAL STATES OF THE MYOCARDIUM, ESPECIALLY ON SPECIFIC CONDUCTION TISSUE DISORDERS] Sanna S, Leo P, Netter R *Boll Soc Ital Cardiol* 20: 1233-49, 1975 (Ita) DL/77MAR2

[CORRELATIONS BETWEEN CLINICAL FINDINGS AND THERAPEUTIC MEASURES AND THE COURSE OF DIABETIC RETINOPATHY] Teuscher A *Schweiz Med Wochenschr* 106: 1041-5, 31 Jul 76 (Ger) DL/77MAR342

[DRUG INFORMATION FOR NURSES. OBESITY: THERAPEUTIC MAIN GROUP: ANORECTICS, APPETITE DEPRESSANTS. 3. COMPLICATIONS OF OBESITY] Lumholtz IB *Sygeplejersken* 76: 11, 13 Oct 76 (Dan) DL/77MAR355

[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA] Mioli V, Pacchiarotti P, Ragaiolo M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523

THERAPY

TUBERCULOSIS AFTER CORTICOSTEROID THERAPY. Sahn SA, Lakshminarayan S *Br J Dis Chest* 70: 195-205, Jul 76 (Eng) DL/77MAR5

[THERAPY OF ACUTE PANCREATITIS] Muller-Wieland K *Dtsch Med Wochenschr* 101: 1729-31, 19 Nov 76 (Ger) DL/77MAR51

[THERAPY OF DIABETIC GLOMERULOSCLEROSIS (KIMMELSTIEL-WILSON SYNDROME)] Kuhlmann H *Dtsch Med Wochenschr* 101: 1769-72, 26 Nov 76 (Ger) DL/77MAR53

[DIET THERAPY OF DIABETES MELLITUS (WITHOUT REFERENCE TO JUVENILE DIABETES)] Sauer H, Nassauer L *Internist (Berlin)* 17: 502-7, Oct 76 (Ger) [48] DL/77MAR163

INSULIN COMA THERAPY: DECREASE OF PLASMA TRYPTOPHAN IN MAN. Baumann P, M.Gaillard J *J Neural Transm* 39: 309-13, 1976 (Eng) DL/77MAR198

INSULIN THERAPY: RECENT ADVANCES IN KETOACIDOSIS, HYPEROSMOLAR COMA AND INSULIN TO TEST. Chisholm DJ *Med J Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

[LEUCINE-SENSITIVE HYPOGLYCEMIA AND ITS DIET THERAPY] Okoh O, Dallmeier M *Munch Med Wochenschr* 118: 1505-6, 12 Nov 76 (Ger) DL/77MAR266

INTRAVENOUS FLUID THERAPY DURING PROLONGED SURGERY. Foster PA *S Afr Med J* 50: 1659-62, Oct 76 (Eng) DL/77MAR348

[GLUCOSE METABOLISM DURING STEROID AND BIGUANIDE THERAPY USING TRITIATED GLUCOSE] Bottermann P, Schweigart U, Emmler R *Verh Dtsch Ges Inn Med* 81: 1481-4, 1975 (Ger) *DL/77MAR539

THIOL GROUP

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Sehlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

Diabetes Literature—Keyword Index

THIOL GROUP

THYMUS

SERUM-FREE CULTIVATION OF THYMUS ORGAN FRAGMENTS. Lumb JR, George YS *Fed Proc* 35: 2555-8, Dec 76 (Eng) DL/77MAR77

THYROID

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, *Facog Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

THYROTOXICOSIS

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabetes Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

THYROXINE

HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

EFFECTS OF NOREPINEPHRINE AND THYROXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Moriya K, Mackubo H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

EFFECT OF PROPRANOLOL ON THYROXINE-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS. Uscilko HK, Brzezinska Z, Greenleaf JE *Acta Physiol Pol* 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543

TISSUE

REGULATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN UTERINE TISSUE IN ORGAN CULTURE. Keran EE, Barker KL *Endocrinology* 99: 1386-97, Nov 76 (Eng) DL/77MAR60

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3:5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1123-8, Dec 76 (Eng) DL/77MAR128

[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhay M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I—THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hoyer BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

EFFECT OF ALLOXAN ON ISLET TISSUE PERMEABILITY: PROTECTION AND REVERSAL BY DITHIOLS. Watkins D, Cooperstein SJ *J Pharmacol Exp Ther* 199: 575-82, Dec 76 (Eng) DL/77MAR201

PLASMA VOLUMES AND ENTRAPMENT OF PLASMA IN TISSUES OF NORMAL AND INSULIN-IMMUNIZED GUINEA PIGS. Wright PH, Williams V *Proc Soc Exp Biol Med* 153: 92-7, Oct 76 (Eng) DL/77MAR324

[ROLE OF ADENINE MONO- AND DINUCLEOTIDES IN AMMONIA FORMATION IN BRAIN TISSUE] Buniatian GK *Vopr Biokhim Mozga* 10: 5-32, 1975 (Rus) [163] DL/77MAR369

IMMUNOPATHOGENIC MECHANISMS IN TISSUE DAMAGE. Bendixen G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 15-25, 1976 (Eng) DL/77MAR407

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

THE EFFECT OF MATERNAL HYPOTHYROIDISM ON MATERNAL AND FETAL TISSUE GLUCOSE-1-14C INCORPORATION IN RATS. Porterfield SP, Hendrich CE *Horm Res* 6: 236-46, 1975 (Eng) *DL/77MAR504

TISSUE, ADIPOSE

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

TISSUE CONDUCTION

[THERAPEUTIC ACTION OF GLUCAGON ON PATHOLOGICAL STATES OF THE MYOCARDIUM, ESPECIALLY ON SPECIFIC CONDUCTION TISSUE DISORDERS] Sanna S, Leo P, Netter R *Boll Soc Ital Cardiol* 20: 1233-49, 1975 (Ita) DL/77MAR2

TISSUE CULTURE

TISSUE CULTURE OF ISOLATED PANCREATIC ISLETS. Andersson A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 283-94, 1976 (Eng) [58] DL/77MAR417

TISSUE, FAT

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

TISSUE, KIDNEY

[TRANSVENOUS KIDNEY PUNCTURE. NEW PROCEDURE FOR WITHDRAWAL OF KIDNEY TISSUE] Mathias K, Rohrbach R, Strecker EP, Kauffmann G *Fortschr Med* 94: 1700-4, 21 Oct 76 (Ger) DL/77MAR143

TISSUE, PANCREATIC

INSULIN OF INDIAN SHEEP & GOAT PANCREATIC TISSUE-ISOLATION AND CONTENT. Yadava HS, Ali Z *Indian J Exp Biol* 14: 90-4, Mar 76 (Eng) DL/77MAR155

TOLBUTAMIDE

NON-SATURABLE-CO-OPERATIVE BINDING OF TOLBUTAMIDE TO ISOLATED ISLETS OF LANGERHANS [PROCEEDINGS]. Alric R,

Lignon F, Loubatieres AL, Manteghetti M, Puech R *Br J Pharmacol* 58: 450p, Nov 76 (Eng) DL/77MAR12

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D] (Paris)* 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Oldewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerani E *Diabetes Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandirana G, Di Campo-Rougerie C, Mahmoud F *Diabetes Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

A STUDY OF THE EFFECTS OF HYPOGLYCEMIA AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VI. SUPPLEMENTARY REPORT ON NONFATAL EVENTS IN PATIENTS TREATED WITH TOLBUTAMIDE. Anonymous *Diabetes* 25: 1129-53, Dec 76 (Eng) DL/77MAR129

EFFECT OF INSULIN, TOLBUTAMIDE AND PHENFORMIN ON THE SERUM GLYCOPROTEIN CONCENTRATION IN NORMAL RABBITS. Chempakam B, Kurup PA *Indian J Exp Biol* 14: 117-9, Mar 76 (Eng) DL/77MAR151

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

TOLERANCE, CARBOHYDRATE

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

TOLERANCE TEST

THE BREAKFAST TOLERANCE TEST: A RETURN TO PHYSIOLOGY. Lefebvre PL, Luyckx AS *Diabetes Metab* 2: 15-9, Mar 76 (Eng) DL/77MAR109

TOXIC EFFECT

CHRONIC TOXIC EFFECTS OF THE WATER OF THE RIVER RHINE UPON RAINBOW TROUTS. PP. 81-91. Poels CL, Strik JJ *Ind Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 5941 1975. (Eng) [13] *DL/77MAR508*

TOXICOLOGY

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jongh HH, van Rijn van Alkemede JW, Wuite TP *Ind Koeman JH, Strik JJ,*

Diabetes Literature—Keyword Index

TREATMENT

Otolaryngol (Stockh) 81: 424-8, May-Jun 76 (Eng) *DL/77MAR541

TRANSPORT, SUGAR

THE PERFUSED ISOLATED LEFT ATRIUM: A PREPARATION FOR STUDIES ON SUGAR TRANSPORT IN THE MYOCARDIUM. Sawh PC, Bihler I Can J Physiol Pharmacol 54: 708-13, Oct 76 (Eng) DL/77MAR24

EFFECT OF ADRENALINE ON SUGAR TRANSPORT IN THE PERFUSED LEFT ATRIUM. Bihler I, Sawh PC Can J Physiol Pharmacol 54: 714-8, Oct 76 (Eng) DL/77MAR25

TRANSVERSE DIFFUSION

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOODS CELLS. Rousselet A, Guthmann C, Matricon J, Bienvenue A, Devaux PF Biochim Biophys Acta 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vigna PM, Devaux PF Biochim Biophys Acta 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

TREATMENT

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R Chirurgie 102: 256-66, Mar 76 (Fre) DL/77MAR46

[GLUCOSE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Happ J, Beyer J, Ulreich F, Schoffing K, Krause U, Fronlich A Dtsch Med Wochenschr 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

[TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL.)] Luft D, Schubert WR, Reichenmiller HE Dtsch Med Wochenschr 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL.)] Mirouze J, Carthy E Diabete Metab 1: 113-8, Jun 75 (Fre) DL/77MAR89

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF Diabete Metab 1: 211-20, Dec 75 (Eng) DL/77MAR103

[ACUTE FACIAL MUCORMYCOSIS IN A DIABETIC SUBJECT. SUCCESSFUL TREATMENT WITH AMPHOTERICIN B] Olivier R, Legrand R, Lefebvre P Diabete Metab 1: 221-5, Dec 75 (Fre) DL/77MAR104

TREATMENT OF INSULIN-INDUCED LIPOATROPHY. Hulst SG Diabetes 25: 1052-4, Nov 76 (Eng) DL/77MAR119

[PRELIMINARY EXPERIENCES IN THE TREATMENT OF RETINAL DISEASES WITH ARGON LASER] Pecoldowa K, Kaluzny J Klin Oczna 46: 1305-11, Nov 76 (Pol) DL/77MAR234

[ROLE OF BIGUANIDES IN THE TREATMENT OF DIABETES MELLITUS] Wiert F Lille Med 21: 570-4, Aug-Sep 76 (Fre) DL/77MAR247

ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 \$941 1975. (Eng) [26] *DL/77MAR509

TRACE ELEMENT

[INFLUENCE OF CHROMIUM AS A TRACE ELEMENT ON THE HORMONAL REGULATION IN THE RAT. 2. PHYSIOLOGICAL FUNCTION OF CHROMIUM IN CARBOHYDRATE METABOLISM] Djahanschiri H, Brune H Z Tierphysiol 36: 201-13, Aug 75 (Ger) *DL/77MAR540

TRACER

BLOOD-BRAIN BARRIER STUDIES IN THE RAT: AN INDICATOR DILUTION TECHNIQUE WITH TRACER SODIUM AS AN INTERNAL STANDARD FOR ESTIMATION OF EXTRACEREBRAL CONTAMINATION. Hertz MM, Bolwig TG Brain Res 107: 333-43, 7 May 76 (Eng) *DL/77MAR490

TRAINING

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Bobilewicz D, Wilk M, Obuchowicz-Fidels B Endokrynol Pol 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

THE NATURE OF THE TRAINING RESPONSE: PERIPHERAL AND CENTRAL ADAPTATIONS OF ONE-LEGGED EXERCISE. Saltin B, Nazar K, Costill DL, Stein E, Jansson E, Essen B, Gollnick D Acta Physiol Scand 96: 289-305, Mar 76 (Eng) *DL/77MAR545

TRANSAMINASE

THE ROLE OF IMPRAPHINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK Indian J Physiol Pharmacol 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

TRANSAMINASE, GLUTAMATE PYRUVATE

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W Biochim Biophys Acta 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

TRANSLATION

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE FEBS Lett 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

TRANSPLANT, RENAL

HEARING LOSS IN PATIENTS WITH DIALYSIS AND RENAL TRANSPLANTS. Quick CA Ann Otol Rhinol Laryngol 85: 776-90, Nov-Dec 76 (Eng) DL/77MAR462

THE EFFECTS OF LONG-TERM ALTERNATE-DAY STEROIDS ON PARAMETERS OF ADRENAL FUNCTION IN RENAL TRANSPLANT PATIENTS. Keogh B, Chu TM, Murphy

GP J Urol 115: 487-9, May 76 (Eng) *DL/77MAR516

TRANSPLANTATION

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS Diabetes 25: 1123-8, Dec 76 (Eng) DL/77MAR128

TRANSPLANTATION VERSUS DIALYSIS IN HIGH RISK PATIENTS. PP. 702-9. Kjellstrand CM, Mauer SM, Shideman JR, Simmons RL, Buselmeier TJ, Najarian JS In: Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a. (Eng) DL/77MAR192

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

TRANSPLANTATION OF THE PANCREAS. Liljehei RC, Ruix JO, Aquino C, Goetz F Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 303-20, 1976 (Eng) DL/77MAR419

TRANSPLANTATION, ISLET

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM Diabetes 25: 1041-51, Nov 76 (Eng) DL/77MAR118

TRANSPLANTATION, ISOGENEIC

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cucho R, Renold AE Endocrinology 99: 1161-7, Nov 76 (Eng) DL/77MAR56

TRANSPLANTATION, KIDNEY

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Sinzinger H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R Wien Med Wochenschr 125: 611-4, 17 Oct 75 (Ger) *DL/77MAR536

TRANSPORT, AMINO ACID

REGULATORY CHARACTERISTICS OF AMINO ACID TRANSPORT IN NEWBORN RAT RENAL CORTEX CELLS. Reynolds RA, Segal S Biochim Biophys Acta 426: 513-25, 19 Mar 76 (Eng) *DL/77MAR486

TRANSPORT, GLUCOSE

EFFECT OF INSULIN ON GLUCOSE TRANSPORT IN DMBA-INDUCED MAMMARY TUMORS. Harmon JT, Huff R Eur J Cancer 12: 933-4, Nov 76 (Eng) DL/77MAR67

EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION. Olefsky JM J Clin Invest 58: 1450-60, Dec 76 (Eng) DL/77MAR181

EFFECT OF PHLORIZIN ON GLUCOSE TRANSPORT IN THE INNER EAR. Takeda T, Makimoto K, Murata K, Suehiro S, Iwai H Acta

Diabetes Literature—Keyword Index

TRIGLYCERIDE SECRETION

TREATMENT OF DIABETIC RETINOPATHY.
Anonymous *Med Lett Drugs Ther* 18: 107-8, Dec 76 (Eng) DL/77MAR264

[OUR APPROACH TO THE TREATMENT OF PURE DIABETIC ARTERIOPATHY AND ARTERIOSCLEROTIC ARTERIOPATHY IN DIABETICS] Tomassini N, Marconato R, Bianchi E, Malan E *Minerva Cardioangi* 24: 253-9, Apr 76 (Ita) DL/77MAR273

[USE OF GLUCAGON IN THE TREATMENT OF SEVERE CONTRACTILE INSUFFICIENCY OF THE MYOCARDIUM] Bertolazzi R, Ricciardi S, Marengo G *Minerva Med* 67: 3519-24, 10 Nov 76 (Ita) DL/77MAR286

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Naso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

[DIABETIC NEPHROPATHIES AND THEIR TREATMENT] Janeczko D *Pol Tyg Lek* 31: 1989-92, 15 Nov 76 (Pol) DL/77MAR314

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

[DIABETIC RETINOPATHY: DOCUMENTATION, EVALUATION OF ITS COURSE AND POSSIBILITIES OF TREATMENT BY PHOTOCOAGULATION] Korner F *Schweiz Med Wochenschr* 106: 1035-40, 31 Jul 76 (Ger) DL/77MAR341

THE TREATMENT OF FULMINANT HEPATIC FAILURE. Terblanche J *S Afr Med J* 50: 1711, Oct 76 (Eng) DL/77MAR351

EFFECTS OF SUBSACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacew S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

[WAYS OF IMPROVING THE DISPENSARIZATION AND SPECIALIZED TREATMENT OF PATIENTS WITH PULMONARY TUBERCULOSIS AND CONCOMITANT DIABETES MELLITUS] Rudin VP, Chuprina MF, Kovalchuk FT *Vrach Delo* 46-7, Jul 76 (Rus) DL/77MAR385

[SURGICAL PROBLEMS IN THE TREATMENT OF DIABETICS. PRESENT STATE AND FUTURE PROSPECTS (AUTHORS TRANSL.)] Redding R, Lorenz D *Ann Chir* 30: 811-6, Oct 76 (Fre) DL/77MAR463

[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA] Mioli V, Pacchiarotti P, Ragaiolo M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H *Verh Dtsch Ges Inn Med* 81: 1411-5, 1975 (Ger) *DL/77MAR537

TRIGLYCERIDE SECRETION

STRESS-INDUCED INHIBITION OF TRIGLYCERIDE SECRETION IN VIVO SAND RATS (PSAMMOMYS OBESUS). Robertson RP, Smith PH *Metabolism* 25: 1583-90, Dec 76 (Eng) DL/77MAR254

TRIGLYCERIDE, SERUM

[DETERMINATION OF SERUM TRIGLYCERIDES] Fukui I, Soyama K, Takano K, Kushihiro H, Masaki K *Jpn J Clin Med* 34 suppl: 1910-24, 1976 (Jpn) DL/77MAR226

TROPHOBLAST

HISTOENZYMATIC EXAMINATION OF TROPHOBLAST FROM EARLY PREGNANCY COMPLICATED BY DIABETES MELLITUS. Liebhart M, Janczewska E, Klosinska-Kita E *Acta Med Pol* 17: 175-82, 1976 (Eng) DL/77MAR436

TRYPTOPHAN

THE CHEMISTRY OF TRYPTOPHAN IN PEPTIDES AND PROTEINS. Fontana A, Toniolo C *Fortschr Chem Org Naturst* 33: 309-449, 1976 (Eng) [467] DL/77MAR141

INSULIN COMA THERAPY: DECREASE OF PLASMA TRYPTOPHAN IN MAN. Baumann P, M.Gaillard J *J Neural Transm* 39: 309-13, 1976 (Eng) DL/77MAR198

TUBERCULOSIS

TUBERCULOSIS AFTER CORTICOSTEROID THERAPY. Sahn SA, Lakshminarayan S *Br J Dis Chest* 70: 195-205, Jul 76 (Eng) DL/77MAR5

TUBERCULOSIS, PULMONARY

[VOCATIONAL REHABILITATION OF PATIENTS WITH DIABETES MELLITUS WHO HAVE UNDERGONE SURGERY FOR PULMONARY TUBERCULOSIS] Iatsozhinskii IuD, Petranik EI, Molotkov VN, Kriuchkov VE *Vrach Delo* 108-11, Jul 76 (Rus) DL/77MAR383

[WAYS OF IMPROVING THE DISPENSARIZATION AND SPECIALIZED TREATMENT OF PATIENTS WITH PULMONARY TUBERCULOSIS AND CONCOMITANT DIABETES MELLITUS] Rudin VP, Chuprina MF, Kovalchuk FT *Vrach Delo* 46-7, Jul 76 (Rus) DL/77MAR385

TUMOR, MAMMARY

EFFECT OF INSULIN ON GLUCOSE TRANSPORT IN DMBA-INDUCED MAMMARY TUMORS. Harmon JT, Hilf R *Eur J Cancer* 12: 933-4, Nov 76 (Eng) DL/77MAR67

TURNOVER RATE

EFFECTS OF NOREPINEPHRINE AND TRYPTOXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Moriya K, Maekubo H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

ULCER, DUODENAL

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dörner M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

ULTRASOUND

[STUDY OF THE EFFECT OF ULTRASOUND ON THE SYMPATHETIC-ADRENAL SYSTEM IN WORKERS] Gerasimova Elu *Gig Sanit* 23-9, Aug 76 (Rus) DL/77MAR139

ULTRASTRUCTURE

ULTRASTRUCTURAL LOCALIZATION OF ADENYL CYCLASE ACTIVITY IN THE PANCREAS OF TWO AMPHIBIAN SPECIES (SALAMANDRA SALAMANDRA L. AND RANA ESCULENTA L.). Trandaburu T *Histochemistry* 48: 1-6, 30 Jul 76 (Eng) DL/77MAR165

ULTRAVIOLET

ALPHA ADRENERGIC CONTROL OF GROWTH HORMONE IN ADULT MALE RATS. Ruch W, Jatton AL, Bucher B, Marbach P, Doepfner W *Experientia* 32: 529-31, 15 Apr 76 (Eng) *DL/77MAR501

UREA PRODUCTION

INFLUENCE OF INSULIN ON LYSOSOMAL ACTIVITY AND UREA PRODUCTION IN ISOLATED PARENCHYMAL CELLS FROM RAT LIVER. Grammelvedt R, Berg T *Hoppe Seyler Z Physiol Chem* 357: 977-81, Jul 76 (Eng) DL/77MAR147

UREMIA

PATHOGENESIS AND CHARACTERIZATION OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. Emmanouel DS, Jaspán JR, Kuku SF, Rubenstein AH, Katz AI, Huen AH *Clin Invest* 58: 1266-72, Nov 76 (Eng) DL/77MAR177

[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA] Mioli V, Pacchiarotti P, Ragaiolo M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523

URETHRA

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNERVATION. Andersen JT, Bradley WE *Diabetes* 25: 1100-5, Dec 76 (Eng) DL/77MAR124

URIDINE

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

URINE

CHANGES IN PLASMA AND URINE MAGNESIUM FOLLOWING SUBCUTANEOUS INSULIN. Lindsay R *Curr Med Res Opin* 4: 296-302, 1976 (Eng) DL/77MAR45

[DETERMINATION OF SERUM AND URINARY CYCLIC AMP AND GMP] Kimura H *Jpn J Clin Med* 34 suppl: 2369-70, 1976 (Jpn) [80] DL/77MAR230

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMATIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblit PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

Diabetes Literature—Keyword Index

VOCATIONAL REHABILITATION

VIRAL KETOACIDOSIS

REYES SYNDROME AND VIRAL KETOACIDOSIS [LETTER]. Aiyathurai JE *Lancet* 2: 1253, 4 Dec 76 (Eng) DL/77MAR246

VIRUS

VIRUS INDUCED INSULINITIS IN EXPERIMENTAL ANIMAL MODELS. Craighead JE *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 123-8, 1976 (Eng) DL/77MAR404

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

VIRUS-INDUCED DIABETES

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

VIRUS INFECTION, COXSACKIE

[MYOCARDITIS AND INSULINITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hofmann W, Waldherr R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

VIRUS-TRANSFORMED

EARLY EFFECTS OF SERUM ON PHOSPHOLIPID METABOLISM IN UNTRANSFORMED AND ONCOGENIC VIRUS-TRANSFORMED CULTURED FIBROBLASTS. Ciechanover A, Hershko A *Biochem Biophys Res Commun* 73: 85-91, 8 Nov 76 (Eng) DL/77MAR475

VISCERAL

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNervation. Andersen JT, Bradley WE *Diabetes* 25: 1100-5, Dec 76 (Eng) DL/77MAR124

VISION

[STATE OF LIPID METABOLISM AND THE ORGAN OF VISION IN CHILDREN WITH DIABETES MELLITUS] Ostashevskaja MI, Petrashevskaja MM, Shcherbina RV *Vopr Okhr Materin Det* 21: 17-20, Feb 76 (Rus) DL/77MAR371

VITAMIN B12

STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

VITREORETINAL

VITREORETINAL AND ANTERIOR SEGMENT SURGERY THROUGH THE PARS PLANA: PART I. Michels RG *Ann Ophthalmol* 8: 1353-81, Nov 76 (Eng) DL/77MAR461

VOCATIONAL REHABILITATION

[VOCATIONAL REHABILITATION OF PATIENTS WITH DIABETES MELLITUS WHO

VASCULAR COMPLICATION

A STUDY OF THE EFFECTS OF HYPOGLYCEMIA AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VI. SUPPLEMENTARY REPORT ON NONFATAL EVENTS IN PATIENTS TREATED WITH TOLBUTAMIDE. Anonymous *Diabetes* 25: 1129-53, Dec 76 (Eng) DL/77MAR129

VASCULAR PROBLEM

VASCULAR PROBLEMS OF DIABETES. Stocks AE *Med J Aust* 2: 540-3, 2 Oct 76 (Eng) DL/77MAR259

VASOPRESSIN

MECHANISM OF INHIBITION OF GASTRIC ACID SECRETION BY HYPERTONIC SOLUTIONS AND VASOPRESSIN. Limlomwongse L, Nophakoon J, Thithapandha A *Pfuegers Arch* 366: 159-65, 5 Nov 76 (Eng) DL/77MAR309

VASOTOCIN

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

VEIN

EFFECTS OF ANOXIA AND GLUCOSE DEPLETION ON ISOLATED VEINS OF THE DOG. Vanhoutte PM *Am J Physiol* 230: 1261-8, May 76 (Eng) *DL/77MAR550

VENOM

PROCEEDINGS: PHARMACOLOGY OF BITIS ARIETANS VENOM. Gumaa KA, Osman OH *West Afr J Pharmacol Drug Res* 2: 92p-93p, Dec 74 (Eng) *DL/77MAR535

VENTRICULAR FIBRILLATION

EXPERIMENTAL CORONARY OCCLUSION IN CALVES: THE EFFECT OF HYPERGLYCAEMIA ON VENTRICULAR FIBRILLATION THRESHOLD. Egerton WS, Balderson G *Aust NZ J Surg* 46: 92-6, Feb 76 (Eng) *DL/77MAR554

VESSEL

TECHNIQUES OF ARGON LASER PHOTOCOAGULATION OF DIABETIC DISK NEW VESSELS. Little HL, Zweng HC, Jack RL, Vassiliadis A *Am J Ophthalmol* 82: 675-83, Nov 76 (Eng) DL/77MAR447

VESSEL, BLOOD

[HISTOTOPOCHEMICAL INVESTIGATIONS ON ELASTIC MEMBRANES OF BLOOD VESSELS WITH SPECIAL REGARD OF DIABETES MELLITUS. IV. HEAVY METALS (AUTHORS TRANSL)] Opitz M, Von Dorsche HH *Acta Histochem (Jena)* 56: 211-4, 1976 (Ger) DL/77MAR423

VIRAL HEPATITIS

PORTAL VENOUS GOODIES AND FULMINANT VIRAL HEPATITIS [EDITORIAL]. Sherlock S *N Engl J Med* 295: 1535-6, 30 Dec 76 (Eng) DL/77MAR269

CLINICAL EXAMINATION OF THE URINE. Duncan JR, Prasse KW *Vet Clin North Am* 6: 647-61, Nov 76 (Eng) DL/77MAR367

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

[INFLUENCE OF FEATURES OF THE ACT OF DELIVERY IN DIABETIC WOMEN ON THE CONCENTRATION OF GLUCOCORTICOID HORMONES IN THE BLOOD AND URINE OF NEWBORNS] Kalinina LM *Akush Ginekol (Mosk)* 5: 44-7, May 76 (Rus) DL/77MAR455

URINE ESTRIOL

PREDICTION OF FETAL OUTCOME BY URINARY ESTRIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHAFETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

CORRELATION BETWEEN MORNING URINE ESTRIOL CONCENTRATION AND 24-HOUR ESTRIOL EXCRETION. Biezanski JJ, Facog, Millner SN *Obstet Gynecol* 48: 678-81, Dec 76 (Eng) DL/77MAR297

URINE EXCRETION

[URINARY EXCRETION OF CATECHOLAMINES IN OBESE SUBJECTS AND IN DIABETICS (AUTHORS TRANSL)] Giorgino R, Nardelli GM, Scardapane R *Diabete Metab* 2: 11-3, Mar 76 (Fre) DL/77MAR108

URINE GLUCOSE

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77MAR93

URINE SUGAR

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JJ, Rosenbloom AL, Grigic A, Weber FT *Am J Dis Child* 130: 1324-7, Dec 76 (Eng) DL/77MAR443

UTERINE TISSUE

REGULATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN UTERINE TISSUE IN ORGAN CULTURE. Keran EE, Barker KL *Endocrinology* 99: 1386-97, Nov 76 (Eng) DL/77MAR60

UVELORETINAL ANTIGEN

LEUCOCYTE-MIGRATION INHIBITION INDUCED BY UVELORETINAL ANTIGEN IN PATIENTS WITH DIABETIC RETINOPATHY. Aviner Z, Henley WL, Okas S, Leopold IH *Diabetes* 25: 1106-9, Dec 76 (Eng) DL/77MAR125

VAGOTOMY

ASSESSMENT OF COMPLETENESS OF VAGOTOMY. Kronborg O *Surg Clin North Am* 56: 1421-34, Dec 76 (Eng) [121] DL/77MAR352

[LIPID AND GLUCOSE ABSORPTION AFTER VAGOTOMY WITH CONSERVATIVE RESECTION OF THE STOMACH] Postolov PM, Fetisov VA, Missiura NV *Vestn Khir* 114: 29-31, Jan 75 (Rus) *DL/77MAR533

WATER

HAVE UNDERGONE SURGERY FOR PULMONARY TUBERCULOSIS] Iatsozhinskii IuD, Petraniuk EI, Molotkov VN, Kriuchkov VE *Vrach Delo* 108-11, Jul 76 (Rus) DL/77MAR383

WATER

CHRONIC TOXIC EFFECTS OF THE WATER OF THE RIVER RHINE UPON RAINBOW TROUTS. PP. 81-91. Poels CL, Strik JJ In: Koeman JH, Strik JJ, ed. *Sublethal effects of toxic chemicals on aquatic animals*. Amsterdam, Elsevier Scientific, 1975. WA 689 5941 1975. (Eng) [13] *DL/77MAR508

WATER, MINERAL

[EFFECT OF MINERAL WATER ON THE SECRETION OF INSULIN IN AN ACUTE EXPERIMENT] Horni J, Vodza J *Fysiatr Reumatol Vestn* 54: 236-42, Oct 76 (Cze) DL/77MAR145

WEANLING

GLUCOSE PREFERENCE AND CALORIC REGULATION IN WEANLING RATS WITH VENTROMEDIAL AND DORSOMEDIAL HYPOTHALAMIC LESIONS. Bernardis LL, Border JR *J Neurosci Res* 1: 485-93, 1975 (Eng) *DL/77MAR515

WEIGHT LIFTING

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

WEIGHT REDUCTION

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL)] Schimmler W, Schuderer A, Kurz M *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

WORK

[THE PROBLEM OF ABILITY TO WORK AND THE SUPERVISION OF WORKING PATIENTS WITH DIABETES MELLITUS] Schunk W *Z Aertzt Fortbild (Jena)* 70: 650-1, 15 Jun 76 (Ger) DL/77MAR389

XANTHOMATOSIS

[SECONDARY DIABETIC XANTHOMATOSIS] Khidrydov KhN, Plechistova LA *Vestn Dermatol Venerol* 66-8, Jul 76 (Rus) DL/77MAR395

Diabetes Literature—Author Index

Subject headings are included only under first author.

Abe M

[DETERMINATION OF SERUM GLUCOSE AND INTERPRETATION OF GLUCOSE TOLERANCE TEST] Sano T, Abe M *Jpn J Clin Med* 34 suppl: 1874-88, 1976 (Jpn) DL/77MAR225

Aberg H

WHAT MIDDLE-AGED MEN KNOW OF THEIR PARENTS CAUSE OF DEATH AND AGE AT DEATH. A COMPARISON BETWEEN HISTORY AND DEATH CERTIFICATE. Waern U, Hedstrand H, Aberg H *Scand J Soc Med* 4: 123-9, 1976 (Eng) DL/77MAR336

Adamson U

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

ACROMEGALY (physiopathology); ADULT; BLOOD SUGAR (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; GLUCAGON (diagnostic use); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (blood); MALE; SOMATOTROPIN (diagnostic use); TOLBUTAMIDE (diagnostic use).

Admiraal J

PLASMA AMINO ACIDS IN PATIENTS WITH THE CARCINOID SYNDROME. Feldman JM, Plonk JC, Admiraal J, Sidbury, JB *Cancer* 38: 2127-31, Nov 76 (Eng) DL/77MAR28

Agren A

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A, Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76 (Eng) DL/77MAR75

AGE FACTORS; ANIMAL; ANIMALS, NEWBORN (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; GLUCOSE (pharmacodynamics); GLYCERALDEHYDE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); MALE; RATS; SECRETORY RATE (drug effects).

Ahlborg G

INFLUENCE OF GLUCOSE INGESTION ON FUEL-HORMONE RESPONSE DURING PROLONGED EXERCISE. Ahlborg G, Felig P *J Appl Physiol* 41: 683-8, Nov 76 (Eng) DL/77MAR167

ADULT; ALANINE (blood); BLOOD SUGAR (metabolism); ENERGY METABOLISM; EXERTION; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); GLUCONEOGENESIS; GLUCOSE (metabolism, pharmacodynamics); GLYCERIN (blood); HEART RATE (drug effects); HUMAN; INSULIN (blood); LACTATES (blood); LEG (metabolism); LIVER CIRCULATION (drug effects); LIVER (metabolism); LUNG (metabolism); MALE; MUSCLES (metabolism); OXYGEN CONSUMPTION; PYRUVATES (blood).

INFLUENCE OF LACTATE INFUSION ON GLUCOSE AND FFA METABOLISM IN MAN. Ahlborg G, Hagenfeldt L, Wahren J *Scand J Clin Lab Invest* 36: 193-201, Mar 76 (Eng) *DL/77MAR530

ADULT; BLOOD SUGAR (metabolism); FASTING; FATTY ACIDS, NONESTERIFIED (blood, metabolism); GLUCOSE (metabolism); HUMAN; LACTATES (blood, metabolism, pharmacodynamics); LEG (blood supply); LIVER (metabolism); MALE; MUSCLE, SMOOTH (metabolism); MUSCLES (metabolism); OLEIC ACIDS (blood, metabolism); OXYGEN CONSUMPTION (drug effects); REGIONAL BLOOD FLOW (drug effects).

Ahmed SS

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Oldewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41

Aiello LM

RUBY LASER PHOTOCOAGULATION OF PROLIFERATING DIABETIC RETINOPATHY: FIFTH-YEAR FOLLOWUP. Aiello LM, Briones JC *Int Ophthalmol Clin* 16: 15-27, Winter 76 (Eng) DL/77MAR159

ADOLESCENCE; ADULT; DIABETES MELLITUS, JUVENILE (complications); DIABETIC RETINOPATHY (complications, pathology, surgery); FOLLOW-UP STUDIES; HUMAN; LASER COAGULATION (instrumentation); MIDDLE AGE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VISUAL ACUITY.

Aitian Skh

[COMPARISON OF JUMPING AND ELECTRODIFFUSION MECHANISMS OF PARTICLE MOVEMENT IN THIN MEMBRANES. I. STATEMENT OF THE PROBLEM. STATIONARY TRANSFER] Aitian Skh, Markin VS, Malev VV *Biofizika* 21: 253-6, Mar-Apr 76 (Rus) *DL/77MAR488

BIOLOGICAL TRANSPORT; COMPARATIVE STUDY; DIFFUSION; ENGLISH ABSTRACT; MATHEMATICS; MEMBRANES (physiology); MODELS, BIOLOGICAL.

Aiyathurai JE

REYES SYNDROME AND VIRAL KETOACIDOSIS [LETTER]. Aiyathurai JE *Lancet* 2: 1253, 4 Dec 76 (Eng) DL/77MAR246

ACIDOSIS (etiology); CHILD; GLUCOSE (metabolism); HUMAN; HYPOGLYCEMIA (complications); KETOSIS (etiology); REYES SYNDROME (etiology); VIRUS DISEASES (complications).

Akerblom HK

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerblom HK, Kivirikko KI *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

Albert ED

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

Aleshina LV

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Bull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

Alexandre P

[CONSUMPTION COAGULOPATHY AND ACIDOSIS IN THE DIABETIC PATIENT (AUTHORS TRANSL)] Larcen A, Lambert H, Laprevote-Heully MC, Alexandre P *Diabete Metab* 2: 33-40, Mar 76 (Fre) DL/77MAR112

Ali TM

STOMACH MOTILITY IN INSULIN-TREATED SHEEP. Ali TM, Nicholason T, Singleton AG *Q J Exp Physiol* 61: 321-9, Oct 76 (Eng) DL/77MAR331

ANIMAL; BLOOD SUGAR (metabolism); FEMALE; GASTROINTESTINAL MOTILITY (drug effects); INSULIN (pharmacodynamics); MALE; MUSCLE CONTRACTION (drug effects); SHEEP; STOMACH, RUMINANT (drug effects, physiology).

Ali Z

INSULIN OF INDIAN SHEEP & GOAT PANCREATIC TISSUE-ISOLATION AND CONTENT. Yadava HS, Ali Z *Indian J Exp Biol* 14: 90-4, Mar 76 (Eng) DL/77MAR155

Allen DO

SOMATOSTATIN INHIBITION OF GLUCAGON-STIMULATED ADENOSINE 3-5-MONOPHOSPHATE ACCUMULATION IN ISOLATED HEPATOCYTES. Oliver JR, Long K, Wagle SR, Allen DO *Proc Soc Exp Biol Med* 153: 367-9, Nov 76 (Eng) DL/77MAR327

Allsopp RH

ISOLATION AND PRESERVATION OF ISLETS FROM THE MOUSE, RAT, GUINEA-PIG AND HUMAN PANCREAS. Ferguson J, Allsopp RH, Taylor RM, Johnston ID *Br J Surg* 63: 767-73, Oct 76 (Eng) DL/77MAR13

Alric R

NON-SATURABLE-CO-OPERATIVE BINDING OF TOLBUTAMIDE TO ISOLATED ISLETS OF LANGERHANS [PROCEEDINGS]. Alric R, Lignon F, Loubatieres AL, Manteghetti M, Puech R *Br J Pharmacol* 58: 450p, Nov 76 (Eng) DL/77MAR12

ANIMAL; BINDING SITES (drug effects); IN VITRO; ISLANDS OF LANGERHANS (metabolism); RATS; TOLBUTAMIDE (metabolism).

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D] (Paris)* 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

ANIMAL; DIAZOXIDE (metabolism); DRUG INTERACTIONS; ENGLISH ABSTRACT; GLIBENCLAMIDE (metabolism); GLIPIZIDE (metabolism); GLUCOSE (metabolism); ISLANDS OF LANGERHANS (metabolism); KINETICS; RATS; TOLBUTAMIDE (metabolism).

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER

Diabetes Literature—Author Index

Altare F

HYPOGLYCEMIC SULFONAMIDES
[AUTHORS TRANSL.] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab 1: 13-21, Mar 75 (Fre)* DL/77MAR80

Altare F

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGGT IN CHILDREN] Barotano S, Cerutti F, Miglio C, Altare F *Minerva Med 67: 3249-54, 20 Oct 76 (Ita)* DL/77MAR279

Altomonte L

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med 67: 3187-92, 17 Oct 76 (Ita)* DL/77MAR275

[BEHAVIOR OF PLASMA/INSULIN, SOMATROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med 67: 3525-32, 10 Nov 76 (Ita)* DL/77MAR287

Alumot E

TOLERANCE AND ACCEPTABLE DAILY INTAKE OF ETHYLENE DICHLORIDE IN THE CHICKEN DIET. Alumot E, Meidler M, Holstein P *Food Cosmet Toxicol 14: 111-4, Apr 76 (Eng)* *DL/77MAR503

ANIMAL EXPERIMENTS (analysis); ANIMAL FEED (analysis); BLOOD PROTEINS (metabolism); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); CHICKENS (physiology); CHOLESTEROL (blood); DIET; DRUG TOLERANCE; ETHYLENE DICHLORIDES (analysis, toxicity); FEMALE; FUMIGATION; HYDROCARBONS, CHLORINATED (toxicity); MALE; OVIPOSITION (drug effects); PESTICIDE RESIDUES; REPRODUCTION (drug effects); SEMEN (drug effects); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H. ; URIC ACID (blood).

Amanwah KS

SCREENING FOR GESTATIONAL DIABETES BY PLASMA GLUCOSE LEVELS [LETTER]. Amanwah KS *Am J Obstet Gynecol 126: 1052, 15 Dec 76 (Eng)* DL/77MAR446

BLOOD SUGAR (analysis); FEMALE; HUMAN; METHODS; PREGNANCY IN DIABETES (blood, diagnosis); PREGNANCY.

Amherdt ML

PHOSPHORYLATION REACTIONS IN ISLETS OF LANGERHANS. Muller WA, Amherdt ML, Vachon AC, Renold AE *J Physiol (Paris) 72: 711-20, Nov 76 (Eng)* DL/77MAR203

Ammann R

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr 106: 749-54, 29 May 76 (Ger)* DL/77MAR337

Andersen JT

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNERVATION. Andersen JT, Bradley WE *Diabetes 25: 1100-5, Dec 76 (Eng)* DL/77MAR124

ADOLESCENCE; ADULT; AGED; ANUS (physiopathology); BLADDER (innervation, physiopathology); CHILD; DIABETES MELLITUS, JUVENILE (physiopathology); DIABETIC NEUROPATHIES (diagnosis);

ELECTROMYOGRAPHY; FEMALE; HUMAN; LUMBOSACRAL PLEXUS (physiopathology); MALE; MIDDLE AGE; NEURAL CONDUCTION; PARALYSIS (complications); URETHRA (innervation, physiopathology); URINATION DISORDERS (complications).

Andersen OO

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 167-75, 1976 (Eng)* [50] DL/77MAR409

CLINICAL SIGNIFICANCE OF ANTI-INSULIN-ANTIBODIES. Andersen OO *Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 231-40, 1976 (Eng)* DL/77MAR413

ADOLESCENCE; ADULT; BINDING SITES, ANTIBODY; DIABETES MELLITUS (drug therapy, immunology); HUMAN; IGE (analysis); IGM (analysis); INSULIN ANTIBODIES (biosynthesis); INSULIN RESISTANCE; INSULIN (therapeutic use); INSULIN (immunology).

Andersson A

EFFECTS OF D-GLYCERALDEHYDE AND D-GLUCOSE OF THE INSULIN RELEASE OF PANCREATIC ISLETS ISOLATED FROM THE NEWBORN RAT. Agren A, Andersson A, Hellerstrom C *FEBS Lett 72: 185-8, 15 Nov 76 (Eng)* DL/77MAR75

REGENERATION OF ISLET CELLS. Hellerstrom C, Andersson A, Gunnarsson R *Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 145-60, 1976 (Eng)* [73] DL/77MAR406

TISSUE CULTURE OF ISOLATED PANCREATIC ISLETS. Andersson A *Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 283-94, 1976 (Eng)* [58] DL/77MAR417

ANIMAL; CULTURE MEDIA; GLUCAGON (metabolism); HUMAN; INSULIN (biosynthesis, secretion); ISLANDS OF LANGERHANS (metabolism, secretion, transplantation); MICE; RATS; REVIEW; TIME FACTORS; TISSUE CULTURE (methods); TISSUE PRESERVATION (methods).

Andersson O

ANTI-HYPERTENSIVE ACTION, TIME OF ONSET AND EFFECTS ON CARBOHYDRATE METABOLISM OF LABETALOL. Andersson O, Berglund G, Hansson L *Br J Clin Pharmacol 3: 757-61, Aug 76 (Eng)* DL/77MAR4

ANIMAL; ANTIHYPERTENSIVE AGENTS; AH 5158 (adverse effects, pharmacodynamics, therapeutic use); BLOOD PRESSURE (drug effects); BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG EVALUATION; ETHANOLAMINES (pharmacodynamics); GLUCOSE TOLERANCE TEST; HEART RATE (drug effects); HYPERTENSION (physiopathology); INSULIN (blood); MALE; MIDDLE AGE; TIME FACTORS.

Andrew A

PANCREATIC APUD CELLS IN OLDER CHICK EMBRYOS, WITH SPECIAL REFERENCE TO THEIR IDENTITY. Andrew A *Histochemistry 49: 213-9, 29 Oct 76 (Eng)* DL/77MAR166

AGE FACTORS; ANIMAL; BIOGENIC AMINES (analysis); CHICK EMBRYO; DOPA (metabolism); ENTEROCHROMAFFIN CELLS; ISLANDS OF LANGERHANS (analysis, cytology, embryology); MICROSCOPY, FLUORESCENCE; NEUROSECRETORY SYSTEMS (cytology).

Anterkyi FS

HYPEROSMOLAR NON-KETOTIC DIABETIC COMA IN A JUVENILE. Owusu SK, Anterkyi FS, Shaw-Taylor KE, Konotey-Ahulu FI *Ghana Med J 14: 241-2, Sep 75 (Eng)* DL/77MAR397

Aquino C

TRANSPLANTATION OF THE PANCREAS. Lelehi RC, Ruix JO, Aquino C, Goetz F *Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 303-20, 1976 (Eng)* DL/77MAR419

Arner P

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Collste H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet 143: 933-40, Dec 76 (Eng)* DL/77MAR353

Arribas NP

PHOTOCOAGULATION IN DIABETIC RETINOPATHY. Arribas NP, Johnston GP, Okun E *Int Ophthalmol Clin 16: 59-77, Winter 76 (Eng)* DL/77MAR160

ADULT; AGE FACTORS; ARGON; DIABETIC RETINOPATHY (pathology, surgery); HUMAN; LASER COAGULATION (instrumentation, methods); MACULA LUTEA (surgery); MACULAR DEGENERATION (surgery); MALE; MIDDLE AGE; OPTIC DISK (surgery); VISUAL ACUITY; XENON.

Arseneva EN

[ADENOSINE CYCLIC 3,5 MONOPHOSPHATE IN CHILDREN WITH DIABETES MELLITUS] Kniazev IuA, Golovanova VB, Vakhrusheva LL, Arseneva EN, Ermolenko RI *Vopr Okhr Materin Det 21: 11-3, Aug 76 (Rus)* DL/77MAR375

Assan R

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab 1: 101-11, Jun 75 (Eng)* DL/77MAR88

ACETYLCHOLINE (pharmacodynamics); AMINOTRANSFERASES (secretion); ANIMAL; ARGININE (pharmacodynamics); CAERULEIN (pharmacodynamics); CHOLECYSTOKININ (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; GLUCAGON (secretion); GLUCOSE (pharmacodynamics); ISLANDS OF LANGERHANS (drug effects, secretion); KINETICS; LACTATE DEHYDROGENASE (secretion); MALE; NOREPINEPHRINE (pharmacodynamics); PANCREAS (enzymology); PANCREATOPEPTIDASE (secretion); RATS; SECRETIN (pharmacodynamics); TRYPSIN (secretion).

CHARACTERIZATION OF PHENFORMIN AND METABOLITES IN PLASMA. Heuclin C, Pest F, Savouret JF, Assan R *Diabete Metab 1: 234-40, Dec 75 (Eng)* DL/77MAR105

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervan A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes 25: 1026-30, Nov 76 (Eng)* DL/77MAR116

Astrup J

EVIDENCE AGAINST H& AND K& AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *Ino Betz E. ed. Ionic actions on vascular smooth muscle. Berlin, Springer, 1976. W3 SY732 1976i.* (Eng) DL/77MAR187

AMPHETAMINE (pharmacodynamics); ANIMAL; ANOXIA (physiopathology); BICUCULLINE; BRAIN (metabolism); CEREBROVASCULAR CIRCULATION; CONVULSIONS (chemically induced, physiopathology); EXTRACELLULAR SPACE;

Diabetes Literature—Author Index

Barker KL

HYDROGEN-ION CONCENTRATION (physiology); **HYPOGLYCEMIA** (physiopathology); **MONOGRAPH** (mortality); **POTASSIUM** (metabolism); **RATS**; **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**; **VASCULAR RESISTANCE**.

Atwater I

DYNAMIC CHARACTERISTICS OF ELECTRICAL ACTIVITY IN PANCREATIC BETA-CELLS. I. - EFFECTS OF CALCIUM AND MAGNESIUM REMOVAL. Atwater I, Beigelman PM *J Physiol (Paris)* 72: 769-86, Nov 76 (Eng) DL/77MAR208

ANIMAL; **CAFFEINE** (pharmacodynamics); **CALCIUM** (physiology); **CELL MEMBRANE PERMEABILITY**; **ELECTROPHYSIOLOGY**; **EXOCYTOSIS**; **GLUCOSE** (pharmacodynamics); **ISLANDS OF LANGERHANS** (physiology); **MAGNESIUM** (physiology); **MEMBRANE POTENTIALS** (drug effects); **MICE**; **QUINIDINE** (pharmacodynamics).

Aubert R

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

August GP

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (urine); **ADOLESCENCE**; **BLOOD SUGAR** (metabolism); **CHILD**; **CHILD, PRESCHOOL**; **FEMALE**; **GLUCAGON** (pharmacodynamics); **HUMAN**; **INSULIN** (blood); **MALE**; **SOMATOTROPIN** (deficiency, therapeutic use); **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

Augusti KT

GAS CHROMATOGRAPHIC ANALYSES OF UNION PRINCIPLES AND A STUDY ON THEIR HYPOGLYCEMIC ACTION. Augusti KT *Indian J Exp Biol* 14: 110-2, Mar 76 (Eng) DL/77MAR150

ANIMAL; **CHROMATOGRAPHY**; **GAS**; **DISULFIDES** (analysis); **HYPOGLYCEMIC AGENTS** (analysis); **MALE**; **MICE**; **OILS** (analysis); **VEGETABLES** (analysis).

Aviner Z

LEUCOCYTE-MIGRATION INHIBITION INDUCED BY UVEORETINAL ANTIGEN IN PATIENTS WITH DIABETIC RETINOPATHY. Aviner Z, Henley WL, Okas S, Leopold IH *Diabetes* 25: 1106-9, Dec 76 (Eng) DL/77MAR125

ADULT; **AGED**; **ANTIGENS**; **CELL MIGRATION INHIBITION**; **DIABETIC RETINOPATHY** (immunology); **FEMALE**; **HUMAN**; **HYPERSENSITIVITY**; **DELAYED** (complications); **IRIS** (immunology); **LEUKOCYTES**; **MALE**; **MIDDLE AGE**; **RETINA** (immunology); **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

Awang DV

GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS OF METHYLATION OF SULFONYLUREA DRUGS. Midha KK, Awang DV, McGilveray IJ *Biomed Mass Spectrom* 3: 100-9, Jun 76 (Eng) DL/77MAR9

Ayrolles C

[SIDE EFFECTS OF INDOMETHACIN] Ayrolles C, Fournie A *Therapie* 31: 313-24, May-Jun 76 (Fre) DL/77MAR358

ADMINISTRATION, ORAL; **AGE FACTORS**; **BLOOD PRESSURE** (drug effects); **CARDIOVASCULAR DISEASES** (chemically induced); **DERMATITIS MEDICAMENTOSA** (etiology); **DRUG INTERACTIONS**; **EAR DISEASES** (chemically induced); **ENGLISH ABSTRACT**; **EYE DISEASES** (chemically induced); **GASTROINTESTINAL DISEASES** (chemically induced); **HUMAN**; **HYPERGLYCEMIA** (chemically induced); **INDOMETHACIN** (adverse effects); **KIDNEY DISEASES** (chemically induced); **LIVER DISEASES** (chemically induced); **MENTAL DISORDERS** (chemically induced); **NERVOUS SYSTEM DISEASES** (chemically induced); **NEURALGIA** (chemically induced); **SEX FACTORS**.

Baba S

[DETERMINATION OF SERUM GLUCAGON] Morita S, Baba S *Jpn J Clin Med* 34 suppl: 2290-8, 1976 (Jpn) [68] DL/77MAR229

Bagdade JD

PHAGOCYTIC AND MICROBICIDAL FUNCTION IN DIABETES MELLITUS. Bagdade JD *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 27-34, 1976 (Eng) DL/77MAR416

BLOOD BACTERICIDAL ACTIVITY; **BLOOD SUGAR**; **CHEMOTAXIS**; **LEUKOCYTE**; **DIABETES MELLITUS** (blood, drug therapy, immunology); **GLYCOGEN** (blood); **GLYCOLYSIS**; **HUMAN**; **INSULIN** (metabolism, therapeutic use); **LEUKOCYTES** (immunology, metabolism); **PHAGOCYTOSIS**; **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

Balderson G

EXPERIMENTAL CORONARY OCCLUSION IN CALVES: THE EFFECT OF HYPERGLYCAEMIA ON VENTRICULAR FIBRILLATION THRESHOLD. Egerton WS, Balderson G *Aust NZ J Surg* 46: 92-6, Feb 76 (Eng) *DL/77MAR554

Ball SG

LETTER: EFFECT OF SKIN-CLEANING AGENTS ON DEXTROSTIX READINGS. Ball SG, Hughes AS *Br Med J* 1: 1279, 22 May 76 (Eng) *DL/77MAR489

AGED; **ALCOHOL**; **PROPYL**; **BLOOD SPECIMEN COLLECTION** (methods); **BLOOD SUGAR**; **HUMAN**; **INDICATORS** AND **REAGENTS**; **REAGENT STRIPS**.

Ban T

FIBER CONNECTIONS IN THE HYPOTHALAMUS AND SOME AUTONOMIC FUNCTIONS. Ban T *Pharmacol Biochem Behav* 3: 3-13, 1975 (Eng) *DL/77MAR525

ANIMAL EXPERIMENTS (analysis); **BLOOD SUGAR** (physiology); **CORTICOTROPIN** (physiology); **FSH** (physiology); **GLUCOSEPHOSPHATASE** (metabolism); **GLYCOGEN PHOSPHORYLASE** (metabolism); **HYPOTHALAMUS** (cytology, physiology, ultrastructure); **LIVER** (metabolism); **LH** (physiology); **MICROSCOPY**; **ELECTRON**; **PANCREAS** (metabolism, ultrastructure); **RABBITS**; **SOMATOTROPIN** (physiology); **THYROTROPIN** (physiology).

Banerjee MR

RESPONSES OF MAMMARY CELLS TO HORMONES. Banerjee MR *Int Rev Cytol* 47: 1-97, 1976 (Eng) [490] DL/77MAR162

ADRENAL CORTX HORMONES (pharmacodynamics); **ANIMAL**; **CELL DIVISION** (drug effects); **CELLS**; **CULTURED**; **CORTICOSTERONE** (pharmacodynamics); **DNA** (biosynthesis); **ESTROGENS** (pharmacodynamics); **FEMALE**; **INSULIN** (pharmacodynamics); **LACTATION**; **MAMMAE** (cytology, metabolism); **MILK PROTEINS** (biosynthesis); **MORPHOGENESIS** (drug effects);

ORGAN CULTURE; **PITUITARY HORMONES** (pharmacodynamics); **POLYRIBOSOMES** (metabolism); **PROGESTERONE** (pharmacodynamics); **PROLACTIN** (pharmacodynamics); **PROTEINS** (biosynthesis); **RECEPTORS**; **HORMONE**; **REVIEW**; **RNA POLYMERASES** (metabolism); **RNA** (biosynthesis); **SEX HORMONES** (pharmacodynamics); **SOMATOTROPIN** (pharmacodynamics); **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

Bankier A

DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE. Patel YC, Orci L, Bankier A, Cameron DP *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

Bar RS

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gorden P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

ADOLESCENCE; **ADULT**; **DIET**; **FASTING**; **FEMALE**; **HUMAN**; **INSULIN** (blood); **MALE**; **MONOCYTES** (metabolism); **OBESEITY** (metabolism, physiopathology); **RECEPTORS**; **INSULIN** (metabolism).

Baran D

EFFECT OF EXERCISE ON GLUCOSE UPTAKE IN DIABETIC ADOLESCENTS. Dorchy H, Ego F, Baran D, Loeb H *Acta Paediatr Belg* 29: 83-5, Apr-Jun 76 (Eng) DL/77MAR427

Baran L

[DIABETIC RETINOPATHY TREATED WITH PHOTOCOAGULATION] Ogielska E, Baran L, Huszcza A *Klin Oczna* 46: 1277-9, Nov 76 (Pol) DL/77MAR232

Baratono S

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baratono S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

BLOOD SUGAR (analysis); **CHILD**; **CHILD, PRESCHOOL**; **DIABETES MELLITUS**; **JUVENILE** (diet therapy); **DIABETIC DIET**; **ENGLISH ABSTRACT**; **GLUCAGON** (diagnostic use); **HUMAN**; **INSULIN** (blood, secretion); **OBESEITY** IN **DIABETES** (diet therapy).

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGTT IN CHILDREN] Baratono S, Cerutti F, Miglio C, Altare F *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

ADOLESCENCE; **BLOOD SUGAR** (analysis); **CHILD**; **CHILD, PRESCHOOL**; **DIABETES MELLITUS**; **JUVENILE** (diet therapy); **DIABETIC DIET**; **ENGLISH ABSTRACT**; **FEMALE**; **GLUCOSE TOLERANCE TEST**; **HUMAN**; **INSULIN** (blood, secretion); **MALE**; **OBESEITY** IN **DIABETES** (diet therapy).

Barber SG

SKIN RASH IN PATIENT RECEIVING GLUCAGON [LETTER]. Barber SG, Hamer JD *Lancet* 2: 1138, 20 Nov 76 (Eng) DL/77MAR243

ACUTE DISEASE; **ADULT**; **CASE REPORT**; **ERYTHEMA** (chemically induced); **GLUCAGON** (adverse effects, therapeutic use); **HUMAN**; **MALE**; **PANCREATITIS** (drug therapy).

Barker KL

REGULATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN UTERINE TISSUE IN ORGAN CULTURE. Keran EE,

Barlett RH

Barker KL *Endocrinology* 99: 1386-97, Nov 76 (Eng) DL/77MAR60

Barlett RH

ENDOGENOUS CALORIC SOURCES AND NITROGEN BALANCE: REGULATION IN POSTOPERATIVE PATIENTS. Gazzaniga AB, Day AT, Barlett RH, Wilson AF *Arch Surg* 111: 1357-61, Dec 76 (Eng) DL/77MAR468

Barry RJ

SODIUM PUMPS AND GALACTOSE TRANSFER IN THE SHORT-CIRCUITED SMALL INTESTINE. Ude JF, Barry RJ *Experientia* 32: 188-90, 15 Feb 76 (Eng) *DL/77MAR500

Bastenic PA

[DIABETES AND AUTOIMMUNE DISEASES (AUTHORS TRANSL)] Bastenic PA *Diabetic Metab* 1: 3-6, Mar 75 (Fre) DL/77MAR82
ADDISON'S DISEASE (etiology); ADRENAL GLANDS (immunology); ANEMIA, PERNICIOUS (etiology); AUTOIMMUNE DISEASES (etiology); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; GASTRIC MUCOSA (immunology); HUMAN; HYPERTHYROIDISM (etiology); HYPOTHYROIDISM (etiology); MALE; THYROID GLAND (immunology).

Baue AE

INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HEMORRHAGIC SHOCK. Chaudry IH, Sayeed MM, Baue AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

Baumann P

INSULIN COMA THERAPY: DECREASE OF PLASMA TRYPTOPHAN IN MAN. Baumann P, M. Gaillard J *J Neural Transm* 39: 309-13, 1976 (Eng) DL/77MAR198

ADULT; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCOSE (therapeutic use); HUMAN; HYPOGLYCEMIA (blood); INSULIN COMA (blood); MALE; SCHIZOPHRENIA (blood, therapy); SHOCK THERAPY, INSULIN; TRYPTOPHAN (blood); TYROSINE (blood).

Becker GJ

RENAL MANIFESTATIONS OF SYSTEMIC DISEASES. Becker GJ *Med J Aust* 2: 345-7, 28 Aug 76 (Eng) DL/77MAR262

ANTI-INFLAMMATORY AGENTS (adverse effects); ANTIBODY-ANTIBODY COMPLEX; ARTERITIS (complications); DIABETIC NEPHROPATHIES (etiology, therapy); HUMAN; KIDNEY DISEASES (chemically induced, etiology, therapy); LUPUS ERYTHEMATOSUS, SYSTEMIC (complications); MULTIPLE MYELOMA (complications); NEPHROTIC SYNDROME (immunology); SCLERODERMA, SYSTEMIC (complications); URINARY TRACT INFECTIONS (complications).

Beigelman PM

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Bessman SP *J Physiol (Paris)* 72: 721-8, Nov 76 (Eng) DL/77MAR204

ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); MICE; PERIODICITY; SECRETORY RATE (drug effects).

DYNAMIC CHARACTERISTICS OF ELECTRICAL ACTIVITY IN PANCREATIC BETA-CELLS. I - EFFECTS OF CALCIUM AND MAGNESIUM REMOVAL. Atwater I, Beigelman PM *J Physiol (Paris)* 72: 769-86, Nov 76 (Eng) DL/77MAR208

Diabetes Literature—Author Index

Bellinger LL

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENERVATION TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Trietley GJ, Bernardis LL *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

ANIMAL; BLOOD SUGAR (analysis); DENERVATION, DOGS; DOSE-RESPONSE RELATIONSHIP, DRUG; EATING (drug effects); EPINEPHRINE (pharmacodynamics); FEEDING THRESHOLD (physiology); GLUCOSE SOLUTION, HYPERTONIC (pharmacodynamics); GLUCOSE (pharmacodynamics); INSULIN (blood); LIVER (drug effects, physiology); MALE; PORTAL VEIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Belopashentseva SB

[MAIN INDICATORS OF CARBOHYDRATE METABOLISM IN OBESE CHILDREN AND ADOLESCENTS] Dudenko NV, Zhamkochian LF, Belopashentseva SB *Vopr Okhr Materin Det* 21: 14-7, Aug 76 (Rus) DL/77MAR376

Belser FG

[LONG TERM CONTROL OF DIABETES IN GENERAL PRACTICE] Belser FG *Schweiz Med Wochenschr* 106: 1045-8, 31 Jul 76 (Ger) DL/77MAR343

BODY WEIGHT; CARBOHYDRATES (urine); DIABETES MELLITUS (therapy); DIABETIC ANGIOPATHIES (diagnosis); DIABETIC NEUROPATHIES (diagnosis); DIET THERAPY (methods); ENGLISH ABSTRACT; FEMALE; FOLLOW-UP STUDIES; HUMAN; MALE; PROTEINURIA (diagnosis); PYELONEPHRITIS (diagnosis).

Bendixen G

IMMUNOPATHOGENIC MECHANISMS IN TISSUE DAMAGE. Bendixen G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 15-25, 1976 (Eng) DL/77MAR407

ANIMAL; ANTIBODY SPECIFICITY; ANTIGEN-ANTIBODY COMPLEX; ANTIGEN-ANTIBODY REACTIONS; ANTIGENIC DETERMINANTS; DIABETES MELLITUS (immunology); HUMAN; IMMUNITY, CELLULAR; LYMPHOCYTES (immunology).

Benoit R

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, Damico P, Pesant P, Matthe R *Union Med Can* 105: 1810-4, Dec 76 (Fre) DL/77MAR364

ACIDOSIS (chemically induced); ADULT; CASE REPORT; DIABETES MELLITUS (drug therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; LACTATES (blood); MALE; MIDDLE AGE; PHENFORMIN (adverse effects, poisoning, therapeutic use); SUICIDE, ATTEMPTED.

Bentolilla A

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijs B, Pena F, Bentolilla A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng) DL/77MAR433

Berdanier CD

EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE RATS. Berdanier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440

ANIMAL; CALORIC INTAKE; CHOLESTEROL (metabolism); DIETARY CARBOHYDRATES; DIETARY PROTEINS; FATTY ACID SYNTHETASE COMPLEX (metabolism); HYPERINSULINISM (metabolism); IMMUNE SERUMS (pharmacodynamics); INSULIN ANTIBODIES; INSULIN (blood); LIPIDS (metabolism); LIVER (anatomy & histology, drug effects, metabolism); MALE; RATS; SPECIES

SPECIFICITY; SUCROSE; TRIGLYCERIDES (blood).

Berg T

INFLUENCE OF INSULIN ON LYSOSOMAL ACTIVITY AND UREA PRODUCTION IN ISOLATED PARENCHYMAL CELLS FROM RAT LIVER. Grammelvedt R, Berg T *Hoppe Seyler Z Physiol Chem* 357: 977-81, Jul 76 (Eng) DL/77MAR147

Berger W

INTRACELLULAR MEMBRANE JUNCTIONS DURING THE EXOCYTOSIS OF INSULIN. Dahl G, Berger W, Meissner HP *J Physiol (Paris)* 72: 703-9, Nov 76 (Eng) DL/77MAR202

[HOW DO WE COUNSEL OUR DIABETIC PATIENTS] Berger W, Muller K *Schweiz Med Wochenschr* 106: 1049-53, 31 Jul 76 (Ger) DL/77MAR344

CARBOHYDRATES (urine); DIABETES MELLITUS (therapy); DIET THERAPY; ENGLISH ABSTRACT; GENERAL PRACTICE; HEALTH EDUCATION; HUMAN; INSULIN (administration & dosage); PATIENT COMPLIANCE.

Berghoff W

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

Berglund G

ANTI-HYPERTENSIVE ACTION, TIME OF ONSET AND EFFECTS ON CARBOHYDRATE METABOLISM OF LABETALOL. Andersson O, Berglund G, Hansson L *Br J Clin Pharmacol* 3: 757-61, Aug 76 (Eng) DL/77MAR4

Bergman EN

QUANTITATIVE ASPECTS OF SECRETION AND HEPATIC REMOVAL OF GLUCAGON IN SHEEP. Brockman RP, Manns JG, Bergman EN *Can J Physiol Pharmacol* 54: 666-70, Oct 76 (Eng) DL/77MAR23

Bergman RN

SIMULATION STUDY OF CONTROL OF HEPATIC GLYCOGEN SYNTHESIS BY GLUCOSE AND INSULIN. El-Refaei M, Bergman RN *Am J Physiol* 231: 1608-19, Nov 76 (Eng) DL/77MAR53

Bernardis LL

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENERVATION TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Trietley GJ, Bernardis LL *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

GLUCOSE PREFERENCE AND CALORIC REGULATION IN WEANLING RATS WITH VENTROMEDIAL AND DORSOMEDIAL HYPOTHALAMIC LESIONS. Bernardis LL, Border JR *J Neurosci Res* 1: 485-93, 1975 (Eng) *DL/77MAR515

ANIMAL EXPERIMENTS (analysis); APPETITE REGULATION (drug effects); BRAIN MAPPING; FEEDING BEHAVIOR (drug effects, physiology); GLUCOSE (pharmacodynamics); HYPOTHALAMUS (physiology); MALE; RATS; RECEPTORS, DRUG; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

Bernat M

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospischal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

Diabetes Literature—Author Index

Blazquez E

Berns AS

MAGNESIUM-INDUCED BRADYCARDIA
[LETTER]. Berns AS, Kollmeyer KR *Ann Intern Med* 85: 760-1, Dec 76 (Eng) DL/77MAR460
ANTACIDS (adverse effects); **BRADYCARDIA** (complications, etiology); **CASE REPORT**; **DIABETES MELLITUS** (complications); **FEMALE**; **HEMATEMESIS** (complications, drug therapy); **HUMAN**; **MAGNESIUM** (blood); **MIDDLE AGE**.

Bersani G

PANCREATIC ISLET-CELL AUTOIMMUNITY
[LETTER]. Del Prete GF, Betterle C, Bersani G, Romano M, Tiengo A *Lancet* 2: 1090, 13 Nov 76 (Eng) DL/77MAR239

Bertin M

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES]
[LETTER]. Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

Bertin R

EFFECTS OF LIPOLYTIC AND ANTILIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3:5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portet R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

ACCLIMATIZATION; ADENOSINE CYCLIC 3,5-MONOPHOSPHATE (metabolism); **ADIPOSE TISSUE** (drug effects, metabolism); **ANIMAL**; **BROWN FAT** (drug effects, metabolism); **COLD**; **COMPARATIVE STUDY**; **CORTICOTROPIN** (pharmacodynamics); **INSULIN** (pharmacodynamics); **LIPID MOBILIZATION** (drug effects); **MALE**; **NOREPINEPHRINE** (pharmacodynamics); **PHENTOLAMINE** (pharmacodynamics); **PROPRANOLOL** (pharmacodynamics); **PROTAGLANDINS E** (pharmacodynamics); **RATS**.

Bertolazzi R

[USE OF GLUCAGON IN THE TREATMENT OF SEVERE CONTRACTILE INSUFFICIENCY OF THE MYOCARDIUM] Bertolazzi R, Ricciardi S, Marengo G *Minerva Med* 67: 3519-24, 10 Nov 76 (Ita) DL/77MAR286
ADULT; **AGED**; **DRUG EVALUATION**; **ENGLISH ABSTRACT**; **FEMALE**; **GLUCAGON** (therapeutic use); **HEART FAILURE**; **CONGESTIVE** (drug therapy); **HUMAN**; **MALE**; **MIDDLE AGE**; **MYOCARDIAL CONTRACTION** (drug effects); **SHOCK**; **CARDIOGENIC** (drug therapy).

Bertoli M

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Naso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

Bessede M

[CHANGES IN BLOOD CONSTITUENTS IN RATS AT 1,800 M ALTITUDE AND EFFECT ON PERIODONTIUM] Bessede M, Worbe JF *C R Soc Biol (Paris)* 169: 1224-6, 1975 (Fre) *DL/77MAR491
ALTITUDE; **ANIMAL EXPERIMENTS** (analysis); **BLOOD CELL COUNT**; **BLOOD SUGAR**; **ENGLISH ABSTRACT**; **HEMOGLOBINS** (analysis); **MALE**; **MASTICATION**; **PERIODONTAL DISEASES** (etiology); **RATS**; **UREA** (blood).

Bessman SP

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Bessman SP *J Physiol (Paris)* 72: 721-8, Nov 76 (Eng) DL/77MAR204

Betterle C

PANCREATIC ISLET-CELL AUTOIMMUNITY
[LETTER]. Del Prete GF, Betterle C, Bersani G, Romano M, Tiengo A *Lancet* 2: 1090, 13 Nov 76 (Eng) DL/77MAR239

Beyer J

[GLISOXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)]
Happ J, Beyer J, Ulreich F, Schoffing K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

Bhathena SJ

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhathena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117
ANIMAL; **ARGININE** (pharmacodynamics); **CALCIUM** (metabolism, pharmacodynamics); **GLUCAGON** (secretion); **GLUCOSE** (pharmacodynamics); **INSULIN** (secretion); **MALE**; **MODELS**; **BIOLOGICAL**; **OSMOLAR CONCENTRATION**; **PANCREAS** (drug effects, secretion); **PERFUSION**; **POTASSIUM** (pharmacodynamics); **RATS**; **SOMATOTROPIN RELEASE INHIBITING HORMONE** (pharmacodynamics); **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.**

Bhatt SD

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L. PART I—THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLUCOGEN. Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (Eng) DL/77MAR153

ANIMAL; **BLOOD SUGAR** (analysis); **BRAIN CHEMISTRY** (drug effects); **FISHES** (metabolism); **GLUCAGON** (pharmacodynamics); **GLUCOGEN** (analysis); **ISLANDS OF LANGERHANS** (drug effects); **LIVER GLUCOGEN** (analysis); **MUSCLES** (analysis).

HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (Eng) DL/77MAR399

ANIMAL; **B-LYMPHOCYTES** (pathology); **BLOOD SUGAR** (metabolism); **BRAIN**; **FISH DISEASES** (chemically induced); **FISHES** (metabolism); **GLUCOGEN** (metabolism); **HYDROCORTISONE** (administration & dosage, pharmacodynamics); **HYPERGLYCEMIA** (chemically induced, veterinary); **ISLANDS OF LANGERHANS** (drug effects, pathology); **LIVER GLUCOGEN** (metabolism); **MUSCLES** (metabolism); **THYROXINE** (administration & dosage, pharmacodynamics).

Bianchi E

[OUR APPROACH TO THE TREATMENT OF PURE DIABETIC ARTERIOPATHY AND ARTERIOSCLEROTIC ARTERIOPATHY IN DIABETICS] Tomassini N, Marconato R, Bianchi E, Malan E *Minerva Cardioangiol* 24: 253-9, Apr 76 (Ita) DL/77MAR273

Bienvue A

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN

BIOLOGICAL MEMBRANES. I. HUMAN RED BLOODS CELLS. Rousselet A, Guthmann C, Matricon J, Bienvue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

Bierenbaum ML

IN VIVO PLATELET FUNCTION IN DIABETES MELLITUS. Fleischman AI, Bierenbaum ML, Stier A, Somol H, Watson PB *Thromb Res* 9: 467-71, Nov 76 (Eng) DL/77MAR359

Biezanski JJ

CORRELATION BETWEEN MORNING URINE ESTRIOL CONCENTRATION AND 24-HOUR ESTRIOL EXCRETION. Biezanski JJ, Facog, Millner SN *Obstet Gynecol* 48: 678-81, Dec 76 (Eng) DL/77MAR297
CREATININE (urine); **ESTRIOL** (urine); **FEMALE**; **HUMAN**; **HYPERTENSION** (urine); **PRE-ECLAMPSIA** (urine); **PREGNANCY IN DIABETES** (urine); **PREGNANCY COMPLICATIONS** (urine); **PREGNANCY COMPLICATIONS, CARDIOVASCULAR** (urine); **PREGNANCY; TIME FACTORS**.

Bihler I

THE PERFUSED ISOLATED LEFT ATRIUM: A PREPARATION FOR STUDIES ON SUGAR TRANSPORT IN THE MYOCARDIUM. Sawh PC, Bihler I *Can J Physiol Pharmacol* 54: 708-13, Oct 76 (Eng) DL/77MAR24

EFFECT OF ADRENALINE ON SUGAR TRANSPORT IN THE PERFUSED LEFT ATRIUM. Bihler I, Sawh PC *Can J Physiol Pharmacol* 54: 714-8, Oct 76 (Eng) DL/77MAR25

ANIMAL; **CATECHOLAMINES** (pharmacodynamics); **EPINEPHRINE** (pharmacodynamics); **FEMALE**; **HEART** (drug effects); **IN VITRO**; **INSULIN** (pharmacodynamics); **MALE**; **METHYLGLUCOSIDES** (metabolism); **METHYLGLYCOSIDES** (metabolism); **MYOCARDIUM** (metabolism); **NICOTINIC ACIDS** (pharmacodynamics); **PHENTOLAMINE** (pharmacodynamics); **PROPRANOLOL** (pharmacodynamics); **RATS**.

Billington D

THE BIOCHEMICAL BASIS OF JAMAICAN AKEE POISONING. Billington D, Osmundsen H, Sherratt HS *N Engl J Med* 295: 1482, 23 Dec 76 (Eng) DL/77MAR267

ANIMAL; **CYCLOPROPANES** (poisoning); **FATTY ACIDS** (metabolism); **HUMAN**; **HYPOGLYCEMIA** (etiology); **HYPOGLYCINS** (poisoning); **JAMAICA**; **OXIDATION-REDUCTION**; **PLANT POISONING** (metabolism); **RATS**.

Bilyk MA

[DIABETES MELLITUS INDUCED BY RIFADIN]
Bilyk MA *Vrach Delo* 111-2, Jul 76 (Rus) DL/77MAR384

CASE REPORT; **DIABETES MELLITUS** (chemically induced); **HUMAN**; **MALE**; **MIDDLE AGE**; **RIFAMPIN** (adverse effects).

Biondi C

CYCLIC AMP CONTROL BY PROTAGLANDIN E1 IN NON-PARENCHYMAL LIVER CELLS. Ferretti E, Biondi C, Tomasi V *FEBS Lett* 69: 70-4, 15 Oct 76 (Eng) DL/77MAR74

Bizouati G

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

Blazquez E

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS.

Blekys I

Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57
ANIMAL; ARGININE (pharmacodynamics); DOGS; GASTRIC MUCOSA (secretion); GLUCAGON (blood); HYPERGLYCEMIA (blood); ILEUM (secretion); INSULIN (deficiency, pharmacodynamics); JEJUNUM (secretion); PANCREATECTOMY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Blekys I

FAMILIAL GENERALIZED DYSCROMIC AMYLOIDOSIS CUTIS. Eng AM, Cogan L, Gunnar RM, Blekys I *J Cutan Pathol* 3: 102-8, 1976 (Eng) DL/77MAR183

Boblewicz D

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Boblewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

Bohn B

HIGH-SENSITIVITY CYTOFLUOROMETRIC QUANTITATION OF LECTIN AND HORMONE BINDING TO SURFACES OF LIVING CELLS. Bohn B *Exp Cell Res* 103: 39-46, Nov 76 (Eng) DL/77MAR69
CELL LINE; CELL MEMBRANE (metabolism); CELL SURVIVAL; CONCANAVALIN A (metabolism); FLUORESCENT DYES (diagnostic use); GLUCAGON (metabolism); KINETICS; MATHEMATICS; METHYLMANNOSIDES (pharmacodynamics); RECEPTORS, CONCANAVALIN A (metabolism); RECEPTORS, DRUG (metabolism); RECEPTORS, HORMONE (metabolism); RECEPTORS, INSULIN (metabolism); SPECTROMETRY, FLUORESCENCE.

Bolwig TG

BLOOD-BRAIN BARRIER STUDIES IN THE RAT: AN INDICATOR DILUTION TECHNIQUE WITH TRACER SODIUM AS AN INTERNAL STANDARD FOR ESTIMATION OF EXTRACEREBRAL CONTAMINATION. Hertz MM, Bolwig TG *Brain Res* 107: 333-43, 7 May 76 (Eng) *DL/77MAR490

Bonnet M

[PANRETINOPHOTOCOAGULATION] Bonnet M, Pingault C, Grange JD *Klin Oczna* 46: 1289-92, Nov 76 (Pol) DL/77MAR233
DIABETIC RETINOPATHY (surgery); ENGLISH ABSTRACT; HUMAN; LIGHT COAGULATION (methods).

Border JR

GLUCOSE PREFERENCE AND CALORIC REGULATION IN WEANLING RATS WITH VENTROMEDIAL AND DORSOMEDIAL HYPOTHALAMIC LESIONS. Bernardis LL, Border JR *J Neurosci Res* 1: 485-93, 1975 (Eng) *DL/77MAR515

Borgstrom L

GLUCOSE CONSUMPTION IN RAT CEREBRAL CORTEX IN NORMOXIA, HYPOXIA AND HYPERCAPNIA. Borgstrom L, Norberg K, Siesjö BK *Acta Physiol Scand* 96: 569-74, Apr 76 (Eng) *DL/77MAR546
ANIMAL EXPERIMENTS (analysis); ANOXIA (metabolism); CEREBRAL CORTEX (metabolism); GLUCOSE (metabolism); HYPERCAPNIA (metabolism); MALE; RATS; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Borud O

DOPAMINE-BETA-HYDROXYLASE ACTIVITY IN SERUM FOLLOWING ACUTE MYOCARDIAL INFARCTION: AN EVALUATION OF THIS PARAMETER FOR ROUTINE USE AS AN INDEX OF SYMPATHETIC ACTIVITY. Gutteberg T, Borud O, Stromme JH *Clin Chim Acta* 69: 61-6, 17 May 76 (Eng) *DL/77MAR495

Bottazzo GF

HUMORAL AUTOIMMUNITY IN DIABETES MELLITUS. Bottazzo GF, Doniach D, Poupard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 55-64, 1976 (Eng) DL/77MAR420
ADULT; ANTIBODIES (analysis); ANTIBODY SPECIFICITY; AUTOANTIBODIES (analysis); DIABETES MELLITUS (immunology); DIABETES MELLITUS, JUVENILE (immunology); FEMALE; HUMAN; INSULIN ANTIBODIES (analysis); ISLANDS OF LANGERHANS (immunology); MALE; RECEPTORS, INSULIN.

Bottermann P

[GLUCOSE METABOLISM DURING STEROID AND BIGUANIDE THERAPY USING TRITIATED GLUCOSE] Bottermann P, Schweigart U, Emmler R *Verh Dtsch Ges Inn Med* 81: 1481-4, 1975 (Ger) *DL/77MAR539
BIGUANIDES (therapeutic use); BLOOD SUGAR (metabolism); DRUG THERAPY, COMBINATION; GLUCONEOGENESIS; HUMAN; STEROIDS (therapeutic use); TRITIUM.

Bouvrain Y

[MYOCARDIAL INFARCTION IN DIABETICS (AUTHORS TRANSL)] Passa P, Masquet C, Krajcivitch A, Brasquer Y, Bouvrain Y *Diabete Metab* 1: 179-83, Sep 75 (Fre) DL/77MAR99

Bowen AJ

ORAL ANTIDIABETICS: PHILOSOPHY AND POLITICS. Bowen AJ *J Med Assoc Ga* 65: 411-4, Nov 76 (Eng) DL/77MAR196
DIABETES MELLITUS (drug therapy); HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); PHILOSOPHY; POLITICS; UNITED STATES FOOD AND DRUG ADMINISTRATION; UNITED STATES.

Braccili MP

[PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES] Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccili MP *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283

Bradley WE

EARLY DETECTION OF DIABETIC VISCERAL NEUROPATHY. AN ELECTROPHYSIOLOGIC STUDY OF BLADDER AND URETHRAL INNERVATION. Andersen JT, Bradley WE *Diabetes* 25: 1100-5, Dec 76 (Eng) DL/77MAR124

Bras G

PROTEASE I FROM ESCHERICHIA COLI. SOME PHYSICO-CHEMICAL PROPERTIES AND SUBSTRATE SPECIFICITY. Pacaud M, Sibilli S, Bras G *Eur J Biochem* 69: 141-51, 1 Oct 76 (Eng) DL/77MAR65

Brasquer Y

[MYOCARDIAL INFARCTION IN DIABETICS (AUTHORS TRANSL)] Passa P, Masquet C, Krajcivitch A, Brasquer Y, Bouvrain Y *Diabete Metab* 1: 179-83, Sep 75 (Fre) DL/77MAR99

Breidahl H

THE EFFECT OF AN ANORECTIC AGENT (MAZINDOL) ON CONTROL OF OBSE DIABETICS. Sanders M, Breidahl H *Med J Aust* 2: 576-7, 9 Oct 76 (Eng) DL/77MAR261

Brenner K

[BEHAVIOR OF CALCIUM, INORGANIC PHOSPHORUS, MAGNESIUM AND GLUCOSE CONCENTRATIONS IN THE PLASMA OF EWES IN THE PERINATAL PERIOD] Brenner K, Seidel H *Arch Exp Veterinaarmed* 29: 939-45, Dec 75 (Ger) *DL/77MAR553
ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); CALCIUM (blood); CATTLE; ENGLISH ABSTRACT; FEMALE; LABOR; MAGNESIUM (blood); MINERALS (blood); PHOSPHORUS (blood); PREGNANCY; SHEEP (blood); SPECIES SPECIFICITY; TIME FACTORS.

Briones JC

RUBY LASER PHOTOCOAGULATION OF PROLIFERATING DIABETIC RETINOPATHY: FIFTH-YEAR FOLLOWUP. Aiello LM, Briones JC *Int Ophthalmol Clin* 16: 15-27, Winter 76 (Eng) DL/77MAR159

Brockman RP

QUANTITATIVE ASPECTS OF SECRETION AND HEPATIC REMOVAL OF GLUCAGON IN SHEEP. Brockman RP, Manns JG, Bergman EN *Can J Physiol Pharmacol* 54: 666-70, Oct 76 (Eng) DL/77MAR23
P-AMINOHIPURIC ACID (pharmacodynamics); ANIMAL; FEMALE; GLUCAGON (metabolism, pharmacodynamics); LIVER (blood supply, metabolism); REGIONAL BLOOD FLOW (drug effects); SHEEP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Brown SB

THE STRUCTURE OF HAEM IN PYRIDINE/WATER MIXTURES AND ITS IMPLICATION IN STUDIES OF HAEM CATABOLISM. Brown SB, King RF *Biochem J* 153: 479-83, 1 Feb 76 (Eng) *DL/77MAR555
ALCOHOL, ETHYL; BUTANONES; CHEMISTRY; HEME (metabolism); OXIDATION-REDUCTION; PYRIDINES; SPECTRUM ANALYSIS; WATER.

Bruno H

[INFLUENCE OF CHROMIUM AS A TRACE ELEMENT ON THE HORMONAL REGULATION IN THE RAT. 2. PHYSIOLOGICAL FUNCTION OF CHROMIUM IN CARBOHYDRATE METABOLISM] Djahanshiri H, Bruno H *Z Tierphysiol* 36: 201-13, Aug 75 (Ger) *DL/77MAR540

Bruno A

[PRELIMINARY OBSERVATIONS ON THE BEHAVIOR OF IMMUNOGLOBULINS IN DIABETICS TREATED BY DIFFERENT METHODS] Bruno A, Innocenti M, Pasquino M, Pugliese F, Zola P *Minerva Med* 67: 3255-60, 20 Oct 76 (Ita) DL/77MAR280
ADOLESCENCE; ADULT; AGED; DIABETES MELLITUS (drug therapy, immunology); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); IMMUNOGLOBULINS (analysis); INSULIN (therapeutic use); MALE; MIDDLE AGE.

Brunson B

MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI ENDOTOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS. Marchetti G, Merlo L, Nosedà V, Brunson B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527

Brzezinska Z

EFFECT OF PROPRANOLOL ON THYROID-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS. Uscilko HK, Brzezinska Z, Greenleaf JE *Acta Physiol Pol* 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543

Diabetes Literature—Author Index

Cartault F

Bucher B

ALPHA ADRENERGIC CONTROL OF GROWTH HORMONE IN ADULT MALE RATS. Ruch W, Jaton AL, Bucher B, Marbach P. *Doepfner W Experientia* 32: 529-31, 15 Apr 76 (Eng) *DL/77MAR501

Bucher NL

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL. *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

Budzynski TH

EFFECTS OF AN EMG BIOFEEDBACK RELAXATION PROGRAM ON THE CONTROL OF DIABETES: A CASE STUDY. Fowler JE, Budzynski TH, VandenBergh RL. *Biofeedback Self Regul* 1: 105-12, Mar 76 (Eng) DL/77MAR8

Bumma C

[DIABETES, OBESITY AND ADENOCARCINOMA OF CORPUS UTERI] Bumma C, Calciati A, Cacciari P, La Grotta G, Falda M. *Minerva Med* 67: 3261-6, 20 Oct 76 (Ita) DL/77MAR281

ADENOCARCINOMA (complications, therapy); ADULT; AGED; DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; MIDDLE AGE; OBESITY (complications); UTERINE NEOPLASMS (complications, therapy).

Buneaux JJ

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ. *Diabetes Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

Buniation GK

[ROLE OF ADENINE MONO- AND DINUCLEOTIDES IN AMMONIA FORMATION IN BRAIN TISSUE] Buniation GK. *Vopr Biokhim Moza* 10: 5-32, 1975 (Rus) [163] DL/77MAR369

ADENINE NUCLEOTIDES (metabolism); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE MONOPHOSPHATE (pharmacodynamics); AMMONIA (biosynthesis); ANIMAL; ASPARTIC ACID (metabolism); AMP DEAMINASE (metabolism); BRAIN (metabolism); DEAMINATION; ENGLISH ABSTRACT; ENZYME ACTIVATION; GLYCOLYSIS; HEXOKINASE (metabolism); INOSINE NUCLEOTIDES (metabolism); INSULIN (metabolism); ISOENZYMES (metabolism); LIVER (enzymology); MITOCHONDRIA (metabolism); MUSCLES (enzymology); NAD (metabolism); RATS; REVIEW.

Buschard K

RESTITUTION OF STREPTOZOTOCIN INDUCED DIABETES MELLITUS IN NUDE MICE WITH PANCREATIC GRAFTS FROM THE RAT. Buschard K, Rygaard J. *Acta Pathol Microbiol Scand [C]* 84: 221-6, Jun 76 (Eng) DL/77MAR431

ANIMAL; DIABETES MELLITUS (chemically induced, therapy); FEMALE; MALE; MICE; MICE, NUDE; PANCREAS (transplantation); RATS; STREPTOZOTOCIN; SUBMANDIBULAR GLAND (transplantation); TRANSPLANTATION, HETEROLOGOUS.

Buselmeier TJ

TRANSPLANTATION VERSUS DIALYSIS IN HIGH RISK PATIENTS. PP. 702-9. Kjellstrand CM, Mauer SM, Shideman JR, Simmons RL, Buselmeier TJ, Najarian JS. In: *Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a.* (Eng) DL/77MAR192

Butler CF

PNEUMOPERITONEUM AND RIGHT UPPER QUADRANT GAS IN A DIABETIC MAN. Butler CF, Fred HL, Carlson V. *JAMA* 236: 2789-90, 13 Dec 76 (Eng) DL/77MAR219

AGED; AIR; CASE REPORT; CHOLECYSTITIS (radiography); DIABETES MELLITUS (complications); HUMAN; MALE; PNEUMOPERITONEUM (radiography); PULMONARY EMPHYSEMA (radiography).

Cacciari P

[DIABETES, OBESITY AND ADENOCARCINOMA OF CORPUS UTERI] Bumma C, Calciati A, Cacciari P, La Grotta G, Falda M. *Minerva Med* 67: 3261-6, 20 Oct 76 (Ita) DL/77MAR281

Calciati A

[DIABETES, OBESITY AND ADENOCARCINOMA OF CORPUS UTERI] Bumma C, Calciati A, Cacciari P, La Grotta G, Falda M. *Minerva Med* 67: 3261-6, 20 Oct 76 (Ita) DL/77MAR281

Caldwell JH

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, Odorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL. *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

Camanni F

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM. *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

[SOME METABOLIC EFFECTS OF SALBUTAMOL] Fassio V, Massara F, Camanni F, Martina V. *Minerva Med* 67: 3267, 20 Oct 76 (Ita) DL/77MAR282

Camelot G

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER)] Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P. *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

Cameron DP

DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE. Patel YC, Orci L, Bankier A, Cameron DP. *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

Campbell CJ

ORGAN-SPECIFIC CELL-MEDIATED AUTOIMMUNITY IN DIABETES MELLITUS. Irvine WJ, Mac Cuish AC, Campbell CJ, Duncan LJ. *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 65-76, 1976 (Eng) DL/77MAR421

Campbell IW

ACUTE DIABETIC ABDOMEN [LETTER]. Campbell IW, Duncan LJ, Munro JF. *Br Med J* 2: 1074, 30 Oct 76 (Eng) DL/77MAR18

ABDOMEN, ACUTE (etiology); ACIDOSIS, DIABETIC (complications); DIABETES MELLITUS (complications); HUMAN.

Campbell LV

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW. *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

ADOLESCENCE; ADULT; AGED; BICARBONATES (therapeutic use); BLOOD SUGAR (analysis); DIABETES MELLITUS

(blood, drug therapy); FEMALE; HUMAN; HYPERGLYCAEMIA (blood, drug therapy); INFUSIONS, PARENTERAL; INSULIN (administration & dosage, adverse effects, therapeutic use); MALE; MIDDLE AGE; POTASSIUM (therapeutic use); TIME FACTORS.

Campfield LA

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCAEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA. *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211

Capani F

[PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES] Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccili MP. *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283

ADULT; BLOOD SUGAR (analysis); DIABETES MELLITUS (occurrence); ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; HUMAN; INDUSTRIAL MEDICINE; ITALY; MALE; MASS SCREENING; MIDDLE AGE; REAGENT STRIPS.

Carlson V

PNEUMOPERITONEUM AND RIGHT UPPER QUADRANT GAS IN A DIABETIC MAN. Butler CF, Fred HL, Carlson V. *JAMA* 236: 2789-90, 13 Dec 76 (Eng) DL/77MAR219

Carney LR

SEIZURES AFTER THE AGE OF SIXTY. Carney LR. *Practitioner* 217: 74-81, Jul 76 (Eng) DL/77MAR320

AGE FACTORS; AGED; BRAIN NEOPLASMS (complications, diagnosis); DIAGNOSIS, DIFFERENTIAL; DRUG ABUSE (complications); DRUG WITHDRAWAL SYMPTOMS (complications); ELECTROENCEPHALOGRAPHY; EPILEPSY (diagnosis, etiology, therapy); HUMAN; HYPOGLYCAEMIA (complications); INFLAMMATION (complications); MIDDLE AGE; OSMOLAR CONCENTRATION; VASCULAR DISEASES (complications); WOUNDS AND INJURIES (complications).

Carpentier J

INFLUENCE OF METFORMIN ON ARGinine-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ. *Diabetes Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

ADULT; AGED; ARGinine (diagnostic use); BLOOD SUGAR (metabolism); BODY WEIGHT; DIABETES MELLITUS (blood, drug therapy); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCAGON (blood); HUMAN; INSULIN (blood); MALE; METFORMIN (pharmacodynamics, therapeutic use); MIDDLE AGE.

Carroll WW

VARIABLES IN CONTROLLED STUDIES OF DIABETIC RETINOPATHY. Geerarts WJ, Carroll WW. *Va Med* 103: 806-10, Nov 76 (Eng) DL/77MAR394

Carta Q

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baraton S, Cerutti F, Miglio C, Carta Q. *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

Cartault F

[EVALUATION IN CHILDREN OF THE CLINICAL, BIOLOGICAL AND ELECTROENCEPHALOGRAPHIC SIDE EFFECTS OF L-ASPARAGINASE] Olive D, Cartault F, Legras

Diabetes Literature—Author Index

Carter JR Jr

B, Neimann N *Pediatric* 31: 259-78, Apr 76 (Fre) DL/77MAR307

Carter JR Jr

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

Cartry E

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77MAR89

Carulli N

[BILE COMPOSITION IN PATIENTS WITH HIGH RISK OF CHOLELITHIASIS] Ponz De Leon M, Ferenderes R, Carulli N *Minerva Med* 67: 3483-90, 3 Nov 76 (Ita) DL/77MAR284

Casara D

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabete Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

Casey JH

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

Castells S

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

BLOOD SUGAR (analysis); BRAIN DISEASES (metabolism); CHILD; CHILD, PRESCHOOL; DWARFISM (metabolism); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (secretion); MALE; NITROGEN (analysis); SOMATOTROPIN (pharmacodynamics).

Cataland S

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, ODorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

Cavallo T

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

Cerasi E

ACUTE SUPPRESSIVE EFFECT OF HUMAN GROWTH HORMONE ON INSULIN RELEASE INDUCED BY GLUCAGON AND TOLBUTAMIDE IN MAN. Adamson U, Cerasi E *Diabete Metab* 1: 51-6, Mar 75 (Eng) DL/77MAR85

FEED-BACK INHIBITION OF INSULIN SECRETION IN SUBJECTS WITH HIGH AND LOW INSULIN RESPONSE TO GLUCOSE. Cerasi E *Diabete Metab* 1: 73-6, Jun 75 (Eng) DL/77MAR91

ADULT; BLOOD SUGAR; FEEDBACK; FEMALE; GLUCOSE (diagnostic use); HUMAN; INSULIN (blood, secretion); ISLANDS OF LANGERHANS (drug effects, secretion); MALE; MIDDLE AGE; TIME FACTORS.

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

Ceremuzyn-Ski L

RELATIONSHIP BETWEEN THE BLOOD GLUCAGON, GROWTH HORMONE AND GLUCOSE LEVELS IN MYOCARDIAL INFARCTION. Ceremuzyn-Ski L *Pol Med Sci Hist Bull* 15: 59-63, Jan-Mar 76 (Eng) DL/77MAR315

ADULT; AGED; BLOOD SUGAR; COMPARATIVE STUDY; CONVALESCENCE; GLUCAGON (blood); HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (blood); SOMATOTROPIN (blood); TIME FACTORS.

Ceruso D

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

ADULT; AGE FACTORS; AGED; ARTERIOSCLEROSIS (blood); BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); CLOFIBRATE (pharmacodynamics); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYPERLIPIDEMIA (blood); INSULIN (blood); MALE; MIDDLE AGE; TOLBUTAMIDE (diagnostic use).

Cerutti F

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Baratonio S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGTT IN CHILDREN] Baratonio S, Cerutti F, Miglio C, Altare F *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

Cerutti M

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Naso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

Chance RE

THE IMMUNOGENICITY OF INSULIN PREPARATIONS. Chance RE, Root MA, Galloway JA *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 185-98, 1976 (Eng) [38] DL/77MAR410

ADOLESCENCE; ADULT; AGED; BINDING SITES, ANTIBODY; CHILD; CHROMATOGRAPHY, DEAE-CELLULOSE; CHROMATOGRAPHY, GEL; DIABETES MELLITUS (drug therapy, immunology); FEMALE; HUMAN; INSULIN ANTIBODIES (analysis, biosynthesis); INSULIN (immunology, pharmacodynamics); INSULIN (therapeutic use); MALE; MIDDLE AGE; REVIEW; TIME FACTORS.

Chandler PT

DIABETIC FOOT CARE. PROBLEMS AND PRACTICAL SUGGESTIONS. Chandler PT *Postgrad Med* 60: 59-63, Dec 76 (Eng) [22] DL/77MAR317

AMPUTATION; DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES (therapy); FOOT DISEASES (etiology, therapy); FOOT (blood supply); HUMAN; REVIEW;

VASCULAR DISEASES (etiology); VASODILATOR AGENTS (therapeutic use).

Chapman LW

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

Chappuis P

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hen R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabete Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

Charbonnel B

[DIABETES MELLITUS SECONDARY TO LIVER DISEASES. A REVIEW (AUTHORS TRANSL)] Guillon J, Charbonnel B *Diabete Metab* 1: 191-9, Sep 75 (Fre) [58] DL/77MAR101

Charlin A

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER)] Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nav Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

HUNTINGTON CHOREA (complications); HYPOGLYCEMIA (complications); ISLET CELL TUMOR (complications); PANCREATIC NEOPLASMS (complications).

Charlton CG

THE EFFECTS OF D,L-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE. PP. 165-71. Walker CA, Charlton CG *In* Singh JM, Lal H, ed. *Drug addiction. Vol 40 New aspects of analytical and clinical toxicology*. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) *DL/77MAR511

Charney E

CHILDHOOD ANTECEDENTS OF ADULT OBESITY. DO CHUBBY INFANTS BECOME OBESE ADULTS Charney E, Goodman HC, McBride M, Lyon B, Pratt R *N Engl J Med* 295: 6-9, 1 Jul 76 (Eng) *DL/77MAR522

ADOLESCENCE; ADULT; AGE FACTORS; BIRTH WEIGHT; BODY HEIGHT; BODY WEIGHT; CHILD; CHILD, PRESCHOOL; DIATHESIS; FOLLOW-UP STUDIES; HUMAN; INFANT; INFANT, NEWBORN; OBESITY (diagnosis, familial & genetic, occurrence); QUESTIONNAIRES; RISK; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.].

Chase R

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

Chatterjee AK

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

ALANINE AMINOTRANSFERASE (blood); ALTITUDE; AMINOTRANSFERASES (blood); ANIMAL EXPERIMENTS (analysis); ASPARTATE AMINOTRANSFERASE (blood); BLOOD SUGAR (analysis); IMIPRAMINE

Diabetes Literature—Author Index

Colwell JA

(pharmacodynamics); MALE; RATS;
STIMULATION, CHEMICAL; STRESS (blood,
enzymology).

Chaudry IH

INSULIN RESISTANCE AND ITS REVERSAL BY
IN VIVO INFUSION OF ATP IN HERMORR-
HAGIC SHOCK. Chaudry IH, Sayeed MM, Baue
AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76
(Eng) DL/77MAR26

ADENOSINE DIPHOSPHATE (metabolism);
ADENOSINE TRIPHOSPHATE (metabolism,
pharmacodynamics); ANIMAL; GLUCOSE
(metabolism); GUANOSINE TRIPHOSPHATE
(metabolism); INSULIN RESISTANCE; INSULIN
(pharmacodynamics); MUSCLES (metabolism);
NUCLEOTIDES (pharmacodynamics); RATS;
SHOCK, HEMORRHAGIC (physiopathology);
UNITED STATES GOVERNMENT
SUPPORTED, N.I.H.; UNITED STATES
GOVERNMENT SUPPORTED, NON-N.I.H.).

Chempakam B

EFFECT OF INSULIN, TOLBUTAMIDE AND
PHENFORMIN ON THE SERUM
GLYCOPROTEIN CONCENTRATION IN
NORMAL RABBITS. Chempakam B, Kurup PA
Indian J Exp Biol 14: 117-9, Mar 76 (Eng)
DL/77MAR151

ANIMAL; GLYCOPROTEINS (blood); INSULIN,
PROTAMINE ZINC (pharmacodynamics);
MALE; PHENFORMIN (pharmacodynamics);
RABBITS; TOLBUTAMIDE
(pharmacodynamics).

Chen RC

DIABETIC OPHTHALMOPLEGIA. Sung SM,
Ryu RJ, Chen RC *J Formosan Med Assoc* 75:
392-402, Jul 76 (Eng) DL/77MAR197

Cherrington AD

THE ROLE OF INSULIN AND GLUCAGON IN
THE REGULATION OF BASAL GLUCOSE
PRODUCTION IN THE POSTABSORPTIVE
DOG. Cherrington AD, Chiasson JL, Liljenquist
JE, Jennings AS, Keller U, Lacy WW *J Clin In-
vest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

ANIMAL; DOGS; FASTING; GLUCAGON
(antagonists & inhibitors, blood, physiology);
GLUCOSE (biosynthesis); INSULIN (antagonists
& inhibitors, blood, physiology); LIVER
(metabolism); SOMATOTROPIN RELEASE
INHIBITING HORMONE (pharmacodynamics);
UNITED STATES GOVERNMENT
SUPPORTED, N.I.H.).

Chiasson JL

THE ROLE OF INSULIN AND GLUCAGON IN
THE REGULATION OF BASAL GLUCOSE
PRODUCTION IN THE POSTABSORPTIVE
DOG. Cherrington AD, Chiasson JL, Liljenquist
JE, Jennings AS, Keller U, Lacy WW *J Clin In-
vest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

Child JJ

EFFECT OF INHIBITORS OF STEROL
BIOSYNTHESIS ON GROWTH AND SEXU-
ALITY OF PYTHIUM AND ZYGOR-
HYNCHUS. Child JJ, Haskins RH
Mycopathologia 59: 91-3, 24 Sep 76 (Eng)
DL/77MAR270

AY 9944 (pharmacodynamics);
CHLORPROPAMIDE (pharmacodynamics);
COMPARATIVE STUDY; MALE; RATS
(pharmacodynamics); MUCORALES (drug
effects, growth & development);
PHYCOMYCETES (drug effects); PROADIFEN
(pharmacodynamics); PYTHIUM (drug effects,
growth & development); TOLBUTAMIDE
(pharmacodynamics).

Chisholm DJ

INSULIN THERAPY: RECENT ADVANCES IN
KETACIDOSIS, HYPEROSMOLAR COMA
AND INSULIN TO TEST. Chisholm DJ *Med J
Aust* 2: 494-8, 25 Sep 76 (Eng) DL/77MAR257

ACIDOSIS, DIABETIC (drug therapy);
DIABETIC COMA (drug therapy); GLUCOSE
(administration & dosage, therapeutic use);
HUMAN; HYPERGLYCEMIC
HYPEROSMOLAR NONKETOTIC COMA (drug
therapy, etiology); INFUSIONS, PARENTERAL;
INSULIN (therapeutic use); KETOSIS, DIABETIC
(drug therapy, etiology); POTASSIUM
(therapeutic use).

Chlouverakis C

DIETARY AND MEDICAL TREATMENTS OF
OBESITY: AN EVALUATIVE REVIEW. Chlou-
verakis C *Addict Behav* 1: 3-21, Jul 75 (Eng)
DL/77MAR437

AMPHETAMINES (therapeutic use); APPETITE
DEPRESSANTS (therapeutic use); BEHAVIOR
MODIFICATION; DIET, REDUCING;
EVALUATION STUDIES; EXERCISE
THERAPY; FENFLURAMINE (therapeutic use);
GONADOTROPINS, CHORIONIC (therapeutic use);
GROUP PROCESSES;
HOSPITALIZATION; HUMAN; HYPNOSIS;
METFORMIN (therapeutic use); NUTRITIONAL
REQUIREMENTS; OBESITY (diet therapy, drug
therapy, surgery, therapy); PHENFORMIN
(therapeutic use); PSYCHOTHERAPY;
THYROID HORMONES (therapeutic use).

Christy M

HLA, AUTOIMMUNITY, VIRUS AND THE
PATHOGENESIS OF JUVENILE DIABETES
MELLITUS. Nerup J, Andersen OO, Christy M,
Platz P, Ryder L, Thomsen M, Svegaard A *Acta
Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-
75, 1976 (Eng) [50] DL/77MAR409

Chu TM

THE EFFECTS OF LONG-TERM ALTERNATE-
DAY STEROIDS ON PARAMETERS OF
ADRENAL FUNCTION IN RENAL TRANS-
PLANT PATIENTS. Keogh B, Chu TM, Murphy
GP *J Urol* 115: 487-9, May 76 (Eng)
*DL/77MAR516

Chuprina MF

WAYS OF IMPROVING THE DISPENSARIZA-
TION AND SPECIALIZED TREATMENT OF
PATIENTS WITH PULMONARY TUBERCU-
LOSIS AND CONCOMITANT DIABETES
MELLITUS. Rudin VP, Chuprina MF,
Kovalchuk FT *Vrach Delo* 46-7, Jul 76 (Rus)
DL/77MAR385

Chusid MJ

SURFACE SULPHYDRYL GROUPS AND HEX-
OSE MONOPHOSPHATE PATHWAY ACTIVI-
TY IN RESTING HUMAN
POLYMORPHONUCLEAR LEUCOCYTES.
Tsai MF, Newman B, Chusid MJ, Wolff SM,
McIntyre PA *Br J Haematol* 33: 205-11, Jun 76
(Eng) *DL/77MAR480

Ciechanover A

EARLY EFFECTS OF SERUM ON
PHOSPHOLIPID METABOLISM IN UN-
TRANSFORMED AND ONCOGENIC VIRUS-
TRANSFORMED CULTURED FIBROBLASTS.
Ciechanover A, Hershko A *Biochem Biophys Res
Commun* 73: 85-91, 8 Nov 76 (Eng)
DL/77MAR475

BLOOD; CATTLE; CELL LINE; CELL
TRANSFORMATION, NEOPLASTIC;
CULTURE MEDIA; FIBROBLASTS
(metabolism); INSULIN (pharmacodynamics);
PHOSPHATIDIC ACIDS (biosynthesis);
PHOSPHATIDYLCHOLINES (biosynthesis);
PHOSPHATIDYLETHANOLAMINES
(biosynthesis); PHOSPHATIDYLINOSITOLS
(biosynthesis); PHOSPHOLIPIDS (biosynthesis);
SV40 VIRUS (drug effects, metabolism).

Clipet M

[RESULTS OF LONG TERM USE OF A LOW
DOSE ESTROPROGESTATIN IN DIABETICS

AND HIGH RISK WOMEN] Perlemuter L,
Hazard J, Jouin-Caurier D, Clipet M *Nouv Presse
Med* 5: 2853-6, 11 Dec 76 (Fre) DL/77MAR312

Cloche P

[ASSOCIATION OF LANGERHANS
HYPOGLYCEMIC ADENOMA AND
HUNTINGTON CHOREA. 2 CASES
(LETTER)] Charlin A, Bertaud M, Gillet M,
Camelot G, Sava P, Narboni G, Cloche P *Nouv
Presse Med* 5: 2810, 4 Dec 76 (Fre)
DL/77MAR311

Cobb CA

A SEMIAUTOMATED MICROMETHOD FOR
DEXTRAN IN THE PRESENCE OF GLUCOSE.
Weet JF, Cobb CA, Lebric SJ *J Lab Clin Med* 87:
898-902, May 76 (Eng) *DL/77MAR512

Cocola L

URBAN TRAFFIC NOISE, CARDIOCIRCULA-
TORY ACTIVITY AND CORONARY RISK
FACTORS. di Cantogno L, Dallerba R, Teagno
PS, Cocola L *Acta Otolaryngol [Suppl] (Stockh)*
0: 55-63, 1976 (Eng) DL/77MAR426

Cogan L

FAMILIAL GENERALIZED DYSCHROMIC
AMLYOIDOSIS CUTIS. Eng AM, Cogan L,
Gunnar RM, Blekys I *J Cutan Pathol* 3: 102-8,
1976 (Eng) DL/77MAR183

Colbeau A

STUDY OF THE TRANSVERSE DIFFUSION OF
SPIN-LABELED PHOSPHOLIPIDS IN
BIOLOGICAL MEMBRANES. II. INNER
MITOCHONDRIAL MEMBRANE OF RAT
LIVER: USE OF PHOSPHATIDYLCHOLINE
EXCHANGE PROTEIN. Rousselet A, Colbeau
A, Vignais PM, Devaux PF *Biochim Biophys Acta*
426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

Coll-Garcia E

THE EFFECT OF SEROTONIN (5-HT) ON INSU-
LIN SECRETION. Lechin F, Coll-Garcia E, Van
Der Dijk B, Pena F, Bentolila A, Rivas C *Acta
Physiol Lat Am* 25: 339-46, 1975 (Eng)
DL/77MAR433

Colliste H

REJECTION OF ISOLATED PANCREATIC AL-
LOGRAFTS IN PATIENTS WITH DIABETES.
Groth CG, Lundgren G, Arner P,
Colliste H, Hardstedt C, Lewander R, Ostman J
Surg Gynecol Obstet 143: 933-40, Dec 76 (Eng)
DL/77MAR353

Colt E

HEART FAILURE AND HYPOGLYCEMIA. Colt
E *NY State J Med* 76: 2033, Nov 76 (Eng)
DL/77MAR293

CASE REPORT; HEART FAILURE,
CONGESTIVE (complications); HUMAN;
HYPOGLYCEMIA (etiology); MALE; MIDDLE
AGE.

Colloff-Schiller B

LIPID ACCUMULATION IN HUMAN AORTIC
SMOOTH MUSCLE CELL LYOSOMES. Col-
loff-Schiller B, Goldfischer S, Wolinsky H, Fac-
tor SM *Am J Pathol* 83: 39-44, Apr 76 (Eng)
*DL/77MAR549

ADULT; AORTA, ABDOMINAL (ultrastructure);
CHILD; HUMAN; LIPIDS (metabolism);
LYOSOMES (metabolism); MALE; MUSCLE,
SMOOTH (ultrastructure); UNITED STATES
GOVERNMENT SUPPORTED, N.I.H.).

Colwell JA

GLUCOSE AND INSULIN RESPONSES IN
SHEEP SUBJECTED TO A SECOND EPISODE
OF HEMORRHAGIC SHOCK. Fritz SD, Fitts
CT, Colwell JA *Am Surg* 42: 899-907, Dec 76
(Eng) DL/77MAR457

Colwell JA

Cook DA

A PRACTICAL AND THEORETICAL APPRAISAL OF THE SIGNIFICANCE OF P50 AND 2,3-DIPHOSPHOGLYCERATE DETERMINATIONS IN THE ROUTINE CHEMICAL PATHOLOGY DEPARTMENT. Cook DA *Med Lab Sci* 33: 287-97, Oct 76 (Eng) DL/77MAR248
DIABETES MELLITUS (blood);
DIPHOSPHOGLYCERIC ACIDS (blood);
HUMAN; METHODS; OXYGEN (blood);
OXYHEMOGLOBIN (analysis); PHOSPHATES (blood).

Cooperstein SJ

EFFECT OF ALLOXAN ON ISLET TISSUE PERMEABILITY: PROTECTION AND REVERSAL BY DITHIOLS. Watkins D, Cooperstein SJ *J Pharmacol Exp Ther* 199: 575-82, Dec 76 (Eng) DL/77MAR201

Coore HG

HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN RELATION TO GLUCONEOGENESIS AND LIPOGENESIS. Titheradge MA, Coore HG *FEBS Lett* 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76

Cornblath M

HOW MUCH INSULIN. Maclaren NK, Cornblath M *Am J Dis Child* 130: 1307-8, Dec 76 (Eng) DL/77MAR442

ABILITY OF EXOGENOUS ALANINE TO LOWER BLOOD BETA-HYDROXYBUTYRATE DURING DEVELOPMENT IN RATS. Ozand PT, Tildon JT, Stevenson JH, Reed WD, Cornblath M *Am J Physiol* 230: 1385-8, May 76 (Eng) *DL/77MAR551

Cornelius LM

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE. Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368

Costill DL

THE NATURE OF THE TRAINING RESPONSE; PERIPHERAL AND CENTRAL ADAPTATIONS OF ONE-LEGGED EXERCISE. Saltin B, Nazar K, Costill DL, Stein E, Jansson E, Essen B, Gollnick D *Acta Physiol Scand* 96: 289-305, Mar 76 (Eng) *DL/77MAR545

Coy DH

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

Craighead JE

VIRUS INDUCED INSULITIS IN EXPERIMENTAL ANIMAL MODELS. Craighead JE *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 123-8, 1976 (Eng) DL/77MAR404

ANIMAL; DIABETES MELLITUS (etiology); DIABETES MELLITUS (immunology); DIABETES MELLITUS, JUVENILE (etiology, immunology); DISEASE MODELS, ANIMAL; HUMAN; INSULIN; ISLANDS OF LANGERHANS (immunology, pathology); PANCREATITIS (etiology, immunology); VIRUS DISEASES (complications).

Cravario A

[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

ADULT; AMYOTROPHIC LATERAL SCLEROSIS (metabolism); BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); ENGLISH ABSTRACT; GLUCOSE (metabolism); HUMAN; INSULIN (blood); MIDDLE AGE; PHOSPHORUS (blood, metabolism); TRIGLYCERIDES (blood).

Cravetto CA

[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

Cryer PE

ISOTOPE-DERIVATIVE MEASUREMENTS OF PLASMA NOREPINEPHRINE AND EPINEPHRINE IN MAN. Cryer PE *Diabetes* 25: 1071-82, Nov 76 (Eng) [52] DL/77MAR122
ADRENAL GLANDS (blood supply); ADRENERGIC FIBERS (physiology); AXONS (physiology); CARBON RADIOISOTOPES; CATECHOLAMINES (blood); DIABETES MELLITUS (blood); DIABETIC NEUROPATHIES (blood); DOPAMINE BETA-HYDROXYLASE (metabolism); EPINEPHRINE (blood); EXERTION; FEMALE; HUMAN; HYPOTENSION, ORTHOSTATIC (blood); KETOSIS, DIABETIC (blood); MALE; NOREPINEPHRINE (blood); POSTURE; REVIEW; UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; VEINS.

Cuche R

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

Cudworth AG

GENETIC SUSCEPTIBILITY IN DIABETES MELLITUS: ANALYSIS OF THE HLA ASSOCIATION. Cudworth AG, Woodrow JC *Br Med J* 2: 846-8, 9 Oct 76 (Eng) DL/77MAR14
ADOLESCENCE; ADULT; AGE FACTORS; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (drug therapy, familial & genetic); DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); GENE FREQUENCY; HISTOCOMPATIBILITY ANTIGENS; HLA-A; HUMAN; INSULIN (therapeutic use); LINKAGE (GENETICS) ; PHENOTYPE.

Cuendet GS

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBSE-HYPERGLYCEMIC (OB/OB) MICE. Cuendet GS, Loten EG, Jeanraud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173
ACETATES (metabolism); ANIMAL; GLUCOSE (metabolism); HYPERGLYCEMIA (metabolism); INSULIN RESISTANCE; INSULIN (metabolism); LACTATES (metabolism); MALE; MICE; MICE, INBRED C57BL; MUSCLES (metabolism); OBESITY (metabolism); OXIDATIVE PHOSPHORYLATION; PYRUVATES (metabolism).

Cutler J

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

Czechowicz-Janicka K

[SOURCE DOCUMENTS FOR ELECTRONIC DATA PROCESSING IN SELECTED EYE DIS-

EASES] Majewska K, Czechowicz-Janicka K, Janik J, Semeniuk H, Ruszkowski J, Doroszewski J *Klin Oczna* 46: 999-1003, Sep 76 (Pol) DL/77MAR235

Dahl G

INTRACELLULAR MEMBRANE JUNCTIONS DURING THE EXOCYTOSIS OF INSULIN. Dahl G, Berger W, Meissner HP *J Physiol (Paris)* 72: 703-9, Nov 76 (Eng) DL/77MAR202
ANIMAL; EXOCYTOSIS; FREEZE FRACTURING; INSULIN (secretion); MICE; MICROSCOPY, ELECTRON; OSMOLAR CONCENTRATION.

Dallerba R

URBAN TRAFFIC NOISE, CARDIOCIRCULATORY ACTIVITY AND CORONARY RISK FACTORS. di Cantogno L, Dallerba R, Teagno PS, Cocola L *Acta Otolaryngol [Suppl] (Stockh)* 0: 55-63, 1976 (Eng) DL/77MAR426

Dallmeier M

[LEUCINE-SENSITIVE HYPOGLYCEMIA AND ITS DIET THERAPY] Okoh O, Dallmeier M *Munch Med Wochenschr* 118: 1505-6, 12 Nov 76 (Ger) DL/77MAR266

Damico P

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, Damico P, Pesant P, Matte R *Union Med Can* 105: 1810-4, Dec 76 (Fr) DL/77MAR364

Danilewicz M

[COMPARISON OF THE SIZE OF HEPATOCYTE NUCLEI IN DIABETES AND IN SELECTED DIGESTIVE TRACT DISEASES] Danilewicz M, Danilewiczowa M, Mielczarek H, Pruszczyński M, Torzecki Z *Pol Tyg Lek* 31: 1961-2, 15 Nov 76 (Pol) DL/77MAR313
CELL NUCLEUS (ultrastructure); COMPARATIVE STUDY; DIABETES MELLITUS (pathology); ENGLISH ABSTRACT; GASTROINTESTINAL DISEASES (pathology); HUMAN; LIVER (ultrastructure).

Danilewiczowa M

[COMPARISON OF THE SIZE OF HEPATOCYTE NUCLEI IN DIABETES AND IN SELECTED DIGESTIVE TRACT DISEASES] Danilewicz M, Danilewiczowa M, Mielczarek H, Pruszczyński M, Torzecki Z *Pol Tyg Lek* 31: 1961-2, 15 Nov 76 (Pol) DL/77MAR313

Dardik H

REVASCULARIZATION OF THE PERONEAL ARTERY. Dardik H, Ibrahim IM, Sprayregen S, Dardik I *Surg Gynecol Obstet* 143: 946-8, Dec 76 (Eng) DL/77MAR354

ARTERIES (surgery, transplantation); DIABETES MELLITUS (complications); HUMAN; ISCHEMIA (etiology, surgery); LEG (blood supply); METHODS; POSTOPERATIVE COMPLICATIONS (poisoning); SAPHEOUS VEIN (transplantation); TRANSPLANTATION, AUTOLOGOUS; UMBILICAL VEINS (transplantation).

Dardik I

REVASCULARIZATION OF THE PERONEAL ARTERY. Dardik H, Ibrahim IM, Sprayregen S, Dardik I *Surg Gynecol Obstet* 143: 946-8, Dec 76 (Eng) DL/77MAR354

Dargel D

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

Diabetes Literature—Author Index

Devis G

ACETYL COENZYME A (metabolism); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (physiology); ANIMAL; COENZYME A (analogs & derivatives); DIETARY FATS; ENERGY METABOLISM; ENGLISH ABSTRACT; FATTY ACIDS (metabolism); GROWTH; INSULIN (metabolism); LIPIDS (metabolism); LIVER (metabolism); PYRUVATES (metabolism); RATS.

Darle N
EFFECT OF GLUCAGON ON HEPATIC CIRCULATION IN THE PIG. Lindberg B, Darle N *Arch Surg* 111: 1379-83, Dec 76 (Eng) DL/77MAR469

Datuashvili TD
[SIDE EFFECTS AND COMPLICATIONS OF USE OF HORMONAL CONTRACEPTIVES (LITERATURE SURVEY)] Pytel IuA, Zolotarev Il, Tsomyk VG, Datuashvili TD *Vopr Okhr Materin Det* 21: 79-81, Aug 76 (Rus) DL/77MAR380

Dauchel J
[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

Davidson MB
TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

Davis B
AN APPROACH TO A MOLECULAR UNDERSTANDING OF EXOCYTOTIC INSULIN RELEASE. Lazarus NR, Davis B, O'Connor KJ *J Physiol (Paris)* 72: 787-94, Nov 76 (Eng) DL/77MAR209

Day AT
ENDOGENOUS CALORIC SOURCES AND NITROGEN BALANCE: REGULATION IN POSTOPERATIVE PATIENTS. Gazzaniga AB, Day AT, Barlett RH, Wilson AF *Arch Surg* 111: 1357-61, Dec 76 (Eng) DL/77MAR468

De Filippi PG
[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

De Gasquet P
METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

de Jongh HH
TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jongh HH, van Rijn van Alkemade JW, Wuite TP *In O Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [26] *DL/77MAR509*

De Meyts P
FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gordon P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

de Pesquera FG
[PLASMA LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *An Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

De Vizia L
[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA] Mioli V, Pacchiarotti P, Ragaiolo M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523

DeChatelet LR
EFFECT OF NITRO BLUE TETRAZOLIUM DYE ON THE HEXOSE MONOPHOSPHATE SHUNT ACTIVITY OF HUMAN POLYMORPHONUCLEAR LEUKOCYTES. DeChatelet LR, Shirley PS *Biochem Med* 14: 391-8, Dec 75 (Eng) *DL/77MAR558
BLOOD SUGAR (metabolism); CELL SURVIVAL (drug effects); HEXOSEPHOSPHATES (blood); HUMAN; KINETICS; LACTATE DEHYDROGENASE (blood); LEUKOCYTES (drug effects, metabolism); NITROBLUE TETRAZOLIUM (pharmacodynamics); PHAGOCYTOSIS (drug effects); TETRAZOLIUM SALTS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Dehez-Delhay M
[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhay M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

[THE EFFECT OF AGE ON THE IN VITRO RESPONSE TO INSULIN IN THE RAT. I. GLUCOSE METABOLISM ON THE DIAPHRAGM (AUTHORS TRANSL)] Gommers A, Dehez-Delhay M, Jeanjean M *Gerontology* 23: 134-41, 1977 (Fre) DL/77MAR138

Del Ponte A
[PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES] Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccili MP *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283

Del Prete GF
PANCREATIC ISLET-CELL AUTOIMMUNITY [LETTER]. Del Prete GF, Betterle C, Bersani G, Romano M, Tiengo A *Lancet* 2: 1090, 13 Nov 76 (Eng) DL/77MAR239
ADOLESCENCE; ADULT; AUTOANTIBODIES (isolation & purification); AUTOIMMUNE DISEASES; CHILD; DIABETES MELLITUS (immunology); FEMALE; HUMAN; ISLANDS OF LANGERHANS (immunology); MALE; ORGAN SPECIFICITY.

del Valle Nunez CJ
[PLASMA LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *An Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

Della Loggia F
[PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES] Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccili MP *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283

Delmez J
EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOGLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

Delsedime M
[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

Derouiche F
[DIABETIC NEUROPATHY] Derouiche F, Nagati K *Tunis Med* 54: 573-4, Mar-Apr 76 (Fre) DL/77MAR363
ADULT; AGE FACTORS; AGED; DIABETIC NEUROPATHIES (complications, diagnosis, occurrence); FEMALE; HUMAN; MALE; MIDDLE AGE; TUNISIA.

Des Rosiers M
THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

Desana M
[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

Deutsch E
[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATECTOMIZED PATIENTS (AUTHORS TRANSL)] Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

Devaux PF
STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOODS CELLS. Rousselet A, Guthmann C, Matricon J, Bienvenue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

Devis G
CALCIUM ANTAGONISTS AND ISLET FUNCTION. VIII. THE EFFECT OF MAGNESIUM. Malaisse WJ, Devis G, Herchuelz A, Sener A, Somers G *Diabete Metab* 2: 1-4, Mar 76 (Eng) DL/77MAR107

Devis G

Dewailly P

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND DIABETES (AUTHORS TRANSL)] Jaillard J, Sezille G, Fruchart JC, Dewailly P, Romon M *Diabete Metab* 2: 5-9, Mar 76 (Fre) DL/77MAR113

Dhawan S

PRODUCTION OF POLYMETHYL-GALACTURONASE AND CELLULASE AND ITS RELATIONSHIP WITH VIRULENCE IN ISOLATES OF SCLEROTINIA SCLEROTIUM (LIB.) DE BARY. Rai JN, Dhawan S *Indian J Exp Biol* 14: 196-7, Mar 76 (Eng) DL/77MAR154

Di Campo-Rougerie C

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandridona G, Di Campo-Rougerie C, Mahmoud F *Diabete Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

di Cantogno L

URBAN TRAFFIC NOISE, CARDIOCIRCULATORY ACTIVITY AND CORONARY RISK FACTORS. di Cantogno L, Dallerba R, Teagno PS, Cocola L *Acta Otolaryngol [Suppl]* (Stockh) 0: 55-63, 1976 (Eng) DL/77MAR426

ADULT; AGED; AUTOMOBILES; BLOOD PRESSURE; BLOOD SUGAR (analysis); CATECHOLAMINES (urine); CORONARY DISEASE (occurrence); ENVIRONMENTAL EXPOSURE; HEART RATE; HEART (physiology); HUMAN; INSULIN (blood); LIPIDS (blood); MIDDLE AGE; NOISE (adverse effects); RISK; URBAN POPULATION; URIC ACID (blood).

Di Landro D

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Naso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

Dighe SK

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

Dilman VM

[MUTATIONAL-METABOLIC MODEL OF CARCINOGENESIS AND THE PROGRESSION OF THE NEOPLASTIC PROCESS] Dilman VM *Vopr Onkol* 22: 3-16, 1976 (Rus) DL/77MAR381

AGING; CARCINOGENESIS (metabolism); ENGLISH ABSTRACT; FATTY ACIDS (metabolism); FEMALE; GLUCOSE (metabolism); HUMAN; IMMUNITY, CELLULAR; IMMUNOSUPPRESSION; INSULIN (metabolism); MODELS, BIOLOGICAL; MUTATION; NEOPLASMS (pathology); PREGNANCY; STRESS (metabolism).

Ditschuneit H

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H *Verh Dtsch Ges Inn Med* 81: 1411-5, 1975 (Ger) *DL/77MAR537

Djahanschiri H

[INFLUENCE OF CHROMIUM AS A TRACE ELEMENT ON THE HORMONAL REGULATION IN THE RAT. 2. PHYSIOLOGICAL FUNCTION OF CHROMIUM IN CARBOHYDRATE METABOLISM] Djahanschiri H, Brune H *Z Tierphysiol* 36: 201-13, Aug 75 (Ger) *DL/77MAR540

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); CHROMIUM (administration & dosage, metabolism); ENGLISH ABSTRACT; EPINEPHRINE (administration & dosage); FASTING; GLYCOGEN (metabolism); LIVER GLYCOGEN (metabolism); RATS; SULFONYLUREA COMPOUNDS (administration & dosage); TIME FACTORS; TRACE ELEMENTS (metabolism).

Dlusskaia IG

[PHYSIOLOGICAL AND BIOCHEMICAL REACTIONS TO A STANDARD BATTERY OF EMOTION-PRODUCING FACTORS] Simonov EE, Dlusskaia IG *Voen Med Zh* 66-9, Feb 76 (Rus) *DL/77MAR534

Dobbs RE

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

Doepfner W

ALPHA ADRENERGIC CONTROL OF GROWTH HORMONE IN ADULT MALE RATS. Ruch W, Jaton AL, Bucher B, Marbach P, Doepfner W *Experientia* 32: 529-31, 15 Apr 76 (Eng) *DL/77MAR501

Doi K

MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M *Diabetes* 25: 1018-25, Nov 76 (Eng) DL/77MAR115

Doniach D

HUMORAL AUTOIMMUNITY IN DIABETES MELLITUS. Bottazzo GF, Doniach D, Pouplard A *Acta Endocrinol [Suppl]* (Kbh) 83 SUPPL 205: 55-64, 1976 (Eng) DL/77MAR420

Dorchy H

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77MAR93

COMPARATIVE STUDY; DIABETES MELLITUS (urine); ENGLISH ABSTRACT; FALSE POSITIVE REACTIONS; GLYCOSURIA (diagnosis); HUMAN; POLAROGRAPHY; REAGENT STRIPS.

EFFECT OF EXERCISE ON GLUCOSE UPTAKE IN DIABETIC ADOLESCENTS. Dorchy H, Ego F, Baran D, Loeb H *Acta Paediatr Belg* 29: 83-5, Apr-Jun 76 (Eng) DL/77MAR427

ADOLESCENCE; DIABETES MELLITUS, JUVENILE (metabolism); EXERTION; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; INSULIN (diagnostic use); MALE.

Dorn A

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

ANIMALS, NEWBORN; ENGLISH ABSTRACT; FLUORESCENT ANTIBODY TECHNIC; GASTRIN (analysis); GLUCAGON (analysis); INSULIN (analysis); ISLANDS OF LANGERHANS (analysis, embryology, growth & development).

Dorner M

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dorner M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

Doroszewski J

[SOURCE DOCUMENTS FOR ELECTRONIC DATA PROCESSING IN SELECTED EYE DISEASES] Majewska K, Czechowicz-Janicka K, Janik J, Semeniuk H, Ruszkowski J, Doroszewski J *Klin Oczna* 46: 999-1003, Sep 76 (Pol) DL/77MAR235

Drawbaugh R

ALLEVATION OF NARCOTIC WITHDRAWAL SYNDROME BY CONDITIONAL STIMULI. Lal H, Miksic S, Drawbaugh R, Numan R, Smith N *Pavlov J Biol Sci* 11: 251-62, Oct-Dec 76 (Eng) DL/77MAR303

Dreval AV

[RELATIONSHIP BETWEEN THE COURSE OF DIABETES MELLITUS IN CHILDREN AND INDICES OF COMPLEMENT AND INSULIN ANTIBODY TITERS] Dreval AV, Zhukovskii MA, Shcherbacheva LN, Mikhailova VS *Vop Okhr Materin Det* 21: 12-7, Feb 76 (Rus) DL/77MAR370

ADOLESCENCE; CHILD; CHILD, PRESCHOOL; COMPLEMENT; DIABETES MELLITUS, JUVENILE (immunology); ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN ANTIBODIES; MALE.

Drewes SE

PREPARATION OF A CRYSTALLINE A1-(2-NITRO-4-TRIMETHYLAMMONIOPHENYL) DERIVATIVE OF BOVINE INSULIN. Sutton DA, Easter BR, Drewes SE *Hoppe Seyler's Z Physiol Chem* 357: 971-6, Jul 76 (Eng) DL/77MAR146

PREPARATION OF A CRYSTALLINE TRIS-(N-METHYLPYRIDINIUM)-DERIVATIVE OF BOVINE INSULIN. Drewes SE, Sutton DA *Hoppe Seyler's Z Physiol Chem* 357: 1261-6, Sep 76 (Eng) DL/77MAR148

ANIMAL; CHROMATOGRAPHY, ION EXCHANGE; CRYSTALLIZATION; ELECTROPHORESIS; ELECTROPHORESIS, DISC; FEMALE; INSULIN (analogs & derivatives, chemical synthesis); METHODS; MICE; PYRIDINIUM COMPOUNDS (chemical synthesis); X-RAYS.

Dubuc PU

THE DEVELOPMENT OF OBESITY, HYPERINSULINEMIA, AND HYPERGLYCEMIA IN OB/OB MICE. Dubuc PU *Metabolism* 25: 1567-74, Dec 76 (Eng) DL/77MAR252

ANIMAL; BODY COMPOSITION; GENES; HETEROZYGOTE; HYPERGLYCEMIA (complications, metabolism); HYPERINSULINISM (complications, metabolism); LIPIDS (metabolism); MICE; MICE, INBRED C57BL; MICE, OBESE; OBESITY (complications, familial & genetic, metabolism); THINNESS.

Duchesne J

QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE. Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253

Duckworth WC

EFFECT OF ANTECEDENT HORMONE ADMINISTRATION ON LIPOLYSIS IN THE PERFUSED ISOLATED FAT CELL. Solomon SS, Duckworth WC *J Lab Clin Med* 88: 984-94, Dec 76 (Eng) DL/77MAR193

Dudenko NV

[MAIN INDICATORS OF CARBOHYDRATE METABOLISM IN OBESE CHILDREN AND ADOLESCENTS] Dudenko NV, Zhamkochian LF, Belopashentseva SB *Vopr Okhr Materin Det* 21: 14-7, Aug 76 (Rus) DL/77MAR376
ADOLESCENCE; BLOOD SUGAR (analysis); CHILD; ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN RESISTANCE; OBESITY (blood).

Dumitrescu C

[EPIDEMIOLOGICAL STUDIES CONCERNING DIABETES MELLITUS IN ROMANIA. PREMISES, METHODOLOGY AND RESULTS] Mincou I, Dumitrescu C, Stanesco J *Med Interne* 14: 241-51, Oct-Dec 76 (Fre) DL/77MAR334

Duncan JR

CLINICAL EXAMINATION OF THE URINE. Duncan JR, Prasse KW *Vet Clin North Am* 6: 647-61, Nov 76 (Eng) DL/77MAR367
ANIMAL; BACTERIURIA (veterinary); BILIRUBIN (urine); CAT DISEASES (urine); CATS; DOG DISEASES (urine); DOGS; FEMALE; GLYCOSURIA (veterinary); HEMATURIA (veterinary); KETONES (urine); MALE; MYOGLOBINURIA (veterinary); PROTEINURIA (veterinary); PYURIA (veterinary); SPECIFIC GRAVITY; URINE (analysis, cytology, parasitology); UROBILINOGEN (urine).

Duncan LJ

RAPID ONSET OF PROLIFERATIVE RETINOPATHY IN YOUNG INSULIN-INDEPENDENT DIABETICS. Steel JM, Shenfield GM, Duncan LJ *Br Med J* 2: 852, 9 Oct 76 (Eng) DL/77MAR15

ACUTE DIABETIC ABDOMEN [LETTER]. Campbell IW, Duncan LJ, Munro JF *Br Med J* 2: 1074, 30 Oct 76 (Eng) DL/77MAR18

ORGAN-SPECIFIC CELL-MEDIATED AUTOIMMUNITY IN DIABETES MELLITUS. Irvine WJ, Mac Cuih AC, Campbell CJ, Duncan LJ *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 65-76, 1976 (Eng) DL/77MAR421

Dunn HG

FAMILIAL CONGENITAL MONOCHROMATISM, CATARACTS, AND SENSORINEURAL DEAFNESS. Jan JE, Tze WJ, Johnston AC, Dunn HG *Am J Dis Child* 130: 1349-50, Dec 76 (Eng) DL/77MAR444

Dutrillaux MC

INSULIN SECRETION BY HUMAN PANCREAS CULTURED FOR ONE YEAR. Hollande E, Giron BJ, Rey F, Dutrillaux MC *J Physiol (Paris)* 72: 815-32, Nov 76 (Eng) DL/77MAR212

Easter BR

PREPARATION OF A CRYSTALLINE A1-(2-NITRO-4-TRIMETHYLAMMONIOPHENYL) DERIVATIVE OF BOVINE INSULIN. Sutton DA, Easter BR, Drewes SE *Hoppe Seylers Z Physiol Chem* 357: 971-6, Jul 76 (Eng) DL/77MAR146

Edmunds D

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R *Diabetes* 25: 1118-22, Dec 76 (Eng) DL/77MAR127

Egeberg J

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405
ADOLESCENCE; ADULT; ANIMAL; AUTOIMMUNE DISEASES (pathology); CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (immunology, pathology); DISEASE MODELS, ANIMAL; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; IMMUNITY, CELLULAR; IMMUNIZATION; INSULIN; ISLANDS OF LANGERHANS (immunology, pathology, ultrastructure); LYMPHOCYTES (pathology); MALE; MICE; PANCREATITIS (immunology, pathology); RATS.

Egerton WS

EXPERIMENTAL CORONARY OCCLUSION IN CALVES: THE EFFECT OF HYPERGLYCAEMIA ON VENTRICULAR FIBRILLATION THRESHOLD. Egerton WS, Balderson G *Aust NZ J Surg* 46: 92-6, Feb 76 (Eng) *DL/77MAR554
ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); CARBON DIOXIDE (blood); CATTLE; GLUCOSE (therapeutic use); MYOCARDIAL INFARCT (complications); POTASSIUM (blood); VENTRICULAR FIBRILLATION (blood, etiology, prevention & control).

Ego F

EFFECT OF EXERCISE ON GLUCOSE UPTAKE IN DIABETIC ADOLESCENTS. Dorchy H, Ego F, Baran D, Loeb H *Acta Paediatr Belg* 29: 83-5, Apr-Jun 76 (Eng) DL/77MAR427

Eichenseher N

DIABETIC RETINOPATHY STUDY. ASSESSMENT AND COMPARISON OF RETINAL LESIONS FOR COMPUTER ANALYSIS. Koerner F, Eichenseher N, Koerner U *Abrecht von Graefes Arch Klin Ophthalmol* 201: 47-56, 18 Nov 76 (Eng) DL/77MAR456

Elde RP

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

El-Refaï M

SIMULATION STUDY OF CONTROL OF HEPATIC GLYCOGEN SYNTHESIS BY GLUCOSE AND INSULIN. El-Refaï M, Bergman RN *Am J Physiol* 231: 1608-19, Nov 76 (Eng) DL/77MAR453

GLUCOSE (pharmacodynamics); GLUCOSEPHOSPHATASE (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); GLYCOGEN SYNTHETASE (metabolism); INSULIN (pharmacodynamics); LIVER GLYCOGEN (biosynthesis); LIVER (enzymology); MODELS, BIOLOGICAL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Ellenberg M

DIABETIC NEUROPATHY: CLINICAL ASPECTS. Ellenberg M *Metabolism* 25: 1627-55, Dec 76 (Eng) DL/77MAR255
ARM (innervation, physiopathology); ARTHROPATHY, NEUROGENIC (complications); AUTONOMIC NERVOUS SYSTEM (physiopathology); CRANIAL NERVES; DIABETIC NEUROPATHIES (complications, diagnosis, therapy); DIAGNOSIS, DIFFERENTIAL; FEMALE; FOOT DISEASES (complications, therapy); FOOT (innervation); GASTROINTESTINAL DISEASES (complications); GENITAL DISEASES, MALE

(complications); HUMAN; LEG ULCER (complications); MALE; MUSCULAR DISEASES (complications); SYNDROME; UROGENITAL SYSTEM (physiopathology).

Elliott FA

THE NEUROLOGY OF EXPLOSIVE RAGE. THE DYSCONTROL SYNDROME. Elliott FA *Practitioner* 217: 51-60, Jul 76 (Eng) DL/77MAR318
ACCIDENTS, TRAFFIC; ADOLESCENCE; ADULT; AGED; ALCOHOL, ETHYL (adverse effects); ANGER (physiology); CARBAMAZEPINE (administration & dosage); ELECTROENCEPHALOGRAPHY; EPILEPSY, TEMPORAL LOBE; FAMILY CHARACTERISTICS; FEMALE; HUMAN; HYDANTOINS (administration & dosage); HYPOGLYCEMIA; LIMBIC SYSTEM (physiology); MALE; MEPROBAMATE (administration & dosage); MIDDLE AGE; RAGE (drug effects, physiology); VIOLENCE; WOUNDS AND INJURIES.

Eloy R

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

Emanuelli G

[CLINICAL SIGNIFICANCE OF THE TESTS USED IN THE DIAGNOSIS OF PANCREATIC DISEASES] Lenti G, Emanuelli G *Minerva Med* 67: 3661-70, 14 Nov 76 (Ita) DL/77MAR289

Emas S

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dörner M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335
ADULT; BLOOD SUGAR (analysis); DEOXY SUGARS (diagnostic use); DEOXYGLUCOSE (diagnostic use); DUODENAL ULCER (blood, physiopathology, surgery); GASTRECTOMY; GASTRIC JUICE (secretion); GASTRIC MUCOSA (secretion); GASTRIN (blood); HUMAN; INSULIN (diagnostic use); MALE; MIDDLE AGE; PYLORUS (secretion); SECRETORY RATE.

Emmanuel DS

PATHOGENESIS AND CHARACTERIZATION OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. Emmanuel DS, Jaspán JB, Kuku SF, Rubenstein AH, Katz AJ, Huen AH *J Clin Invest* 58: 1266-72, Nov 76 (Eng) DL/77MAR177
ANIMAL; ANTIGENS; DISEASE MODELS, ANIMAL; GLUCAGON (blood); KIDNEY DISEASES (physiopathology); KIDNEY (physiopathology); MALE; NEPHRECTOMY; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UREMIA (blood).

Emmrler R

[GLUCOSE METABOLISM DURING STEROID AND BIGUANIDE THERAPY USING TRITIATED GLUCOSE] Bottermann P, Schweigart U, Emmrler R *Verh Dtsch Ges Inn Med* 81: 1481-4, 1975 (Ger) *DL/77MAR539

Eng AM

FAMILIAL GENERALIZED DYSCHROMIC AMYLOIDOSIS CUTIS. Eng AM, Cogan L, Gunnar RM, Bleksy I *J Cutan Pathol* 3: 102-8, 1976 (Eng) DL/77MAR183
ADULT; AMYLOIDOSIS (familial & genetic, pathology); CASE REPORT; CORONARY DISEASE (pathology); DIABETES MELLITUS, JUVENILE (pathology); FEMALE; HUMAN;

Diabetes Literature—Author Index

Enzi G

LUNG (pathology); MALE; MELANIN; PIGMENTATION DISORDERS (familial & genetic, pathology); PULMONARY FIBROSIS (pathology); SKIN (pathology).

Enzi G

[CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT] Enzi G, Muggeo M, Tiengo A *Minerva Med* 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285
ADULT; CARBOHYDRATES (metabolism); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYPERCHOLESTEREMIA (complications); HYPERLIPIDEMIA (complications); INSULIN (blood); LIPIDS (metabolism); MALE; MYOCARDIAL INFARCT (complications, etiology, metabolism); TRIGLYCERIDES (blood).

Epshtein EV

[SOMATOTROPIC FUNCTION OF THE PITUITARY IN OBESITY] Epshtein EV *Vrach Delo* 105-8, Jul 76 (Rus) DL/77MAR382
ADOLESCENCE; ADULT; ENGLISH ABSTRACT; HUMAN; INSULIN (diagnostic use); MIDDLE AGE; OBESITY (metabolism); PITUITARY GLAND (secretion); PITUITARY GLAND, ANTERIOR (secretion); SOMATOTROPIN (secretion).

Erhardt V

[STATISTICAL RELATIONSHIPS BETWEEN FOOD SUPPLY AND THE MORTALITY OF SOME CHRONIC DEGENERATIVE DISEASES IN EIGHT INDUSTRIALLY DEVELOPED COUNTRIES] Haenel H, Ulbricht G, Oehmisch W, Erhardt V *Z Gesamte Hyg* 22: 748-58, 1976 (Ger) DL/77MAR390

Erlandsen SL

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

Erlj D

ACTION OF INSULIN AND CELL CALCIUM: EFFECT OF IONOPHORE A23187. Grinstein S, Erlj D *J Membr Biol* 29: 313-28, 29 Nov 76 (Eng) DL/77MAR214

Ermolenko RI

[ADENOSINE CYCLIC 3,5 MONOPHOSPHATE IN CHILDREN WITH DIABETES MELLITUS] Kniazev IuA, Golovanova VB, Vakhrusheva LL, Arsenova EN, Ermolenko RI *Vopr Okhr Materin Det* 21: 11-3, Aug 76 (Rus) DL/77MAR375

Erno K

[THE INCIDENCE OF DIABETES MELLITUS IN OBESITY-ASSOCIATED HYPERTENSION] Erno K, Katalin K *Orv Hetil* 117: 2737-8, 7 Nov 76 (Hun) DL/77MAR301
DIABETES MELLITUS (etiology); HUMAN; HYPERTENSION (complications); OBESITY IN DIABETES (complications); OBESITY (complications).

Essen B

THE NATURE OF THE TRAINING RESPONSE; PERIPHERAL AND CENTRAL ADAPTATIONS OF ONE-LEGGED EXERCISE. Saltin B, Nazar K, Costill DL, Stein E, Jansson E, Essen B, Gollnick D *Acta Physiol Scand* 96: 289-305, Mar 76 (Eng) *DL/77MAR545

Facog

CORRELATION BETWEEN MORNING URINE ESTRIOL CONCENTRATION AND 24-HOUR ESTRIOL EXCRETION. Biezanski JJ, Facog, Millner SN *Obstet Gynecol* 48: 678-81, Dec 76 (Eng) DL/77MAR297

ISOLATED ACTH DEFICIENCY AND PREGNANCY. Satterfield RG, Williamson HO, Facog *Obstet Gynecol* 48: 693-6, Dec 76 (Eng) DL/77MAR298

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keyes WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

Factor SM

LIPID ACCUMULATION IN HUMAN AORTIC SMOOTH MUSCLE CELL LYSOSOMES. Coltoff-Schiller B, Goldfischer S, Wolinsky H, Factor SM *Am J Pathol* 83: 39-44, Apr 76 (Eng) *DL/77MAR549

Fagerberg SE

[EXPERIENCES WITH MONOCOMPONENT INSULIN] Fagerberg SE, Gamstedt A *Lakartidningen* 73: 4097-9, 17 Nov 76 (Swe) DL/77MAR236

ADULT; COMPARATIVE STUDY; DIABETES MELLITUS (drug therapy); DRUG EVALUATION; ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN, LENTE (therapeutic use); MALE; MIDDLE AGE; PREGNANCY IN DIABETES (drug therapy); PREGNANCY.

Falda M

[DIABETES, OBESITY AND ADENOCARCINOMA OF CORPUS UTERI] Bumma C, Calciati A, Cacciari P, La Grotta G, Falda M *Minerva Med* 67: 3261-6, 20 Oct 76 (Ita) DL/77MAR281

Fankhauser F

[DIABETIC RETINOPATHY; FACTS AND SPECULATIONS] Fankhauser F *Schweiz Med Wochenschr* 106: 1029-34, 31 Jul 76 (Ger) DL/77MAR340

AGED; DIABETIC RETINOPATHY (physiopathology, therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOPHYSECTOMY; LIGHT COAGULATION; MALE; MIDDLE AGE.

Fankhauser S

[PURITY AND ANTIGENICITY OF THE NEW INSULIN PREPARATIONS] Fankhauser S *Schweiz Med Wochenschr* 106: 1218-25, 4 Sep 76 (Ger) DL/77MAR347

ANIMAL; ANTIBODY FORMATION; ANTIGENS; CATTLE; CHROMATOGRAPHY; DIABETES MELLITUS (therapy); ENGLISH ABSTRACT; HUMAN; IMMUNOSUPPRESSION; INSULIN ANTIBODIES; INSULIN (immunology, therapeutic use); SWINE.

Fanska R

INTERACTION OF CALCIUM AND GLUCAGON ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

Farivar M

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

ACUTE DISEASE; ANIMAL; DISEASE MODELS, ANIMAL; DRUG SYNERGISM; FEMALE; GLUCAGON (administration & dosage, pharmacodynamics, therapeutic use); HEPATITIS A (drug therapy, mortality); INSULIN (administration & dosage, pharmacodynamics, therapeutic use); LIVER REGENERATION (drug effects); MICE; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Farr MJ

DIAZOXIDE, GLIPIZIDE, HYPERTENSION AND HYPOGLYCAEMIA [LETTER]. Farr MJ *Lancet* 2: 1138, 20 Nov 76 (Eng) DL/77MAR242
ADULT; CASE REPORT; GLIPIZIDE (adverse effects); HUMAN; HYPERTENSION (drug therapy); HYPOGLYCEMIA (chemically induced); MALE; SULFONYLUREA COMPOUNDS (adverse effects).

Fassio V

[SOME METABOLIC EFFECTS OF SALBUTAMOL] Fassio V, Massara F, Camanni F, Martina V *Minerva Med* 67: 3267, 20 Oct 76 (Ita) DL/77MAR282
ALBUTEROL (pharmacodynamics); BLOOD SUGAR (analysis); GLUCOSE (metabolism); HUMAN; INSULIN (blood).

Federspil G

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabete Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111
BLOOD SUGAR (analysis); COMPARATIVE STUDY; GLIBORNURIDE (therapeutic use); HUMAN; HYPERTHYROIDISM (blood, drug therapy, physiopathology); INSULIN (blood, secretion); ISLANDS OF LANGERHANS (secretion); SULFONYLUREA COMPOUNDS (therapeutic use); TIME FACTORS.

Fedotov VP

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Biull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10
ANIMAL; CELL NUCLEUS (metabolism); DNA (metabolism); ENGLISH ABSTRACT; FEMALE; HYPOPHYSECTOMY; INSULIN (pharmacodynamics); LYMPH NODES (cytology); LYMPHOCYTES (metabolism); RATS; SOMATOTROPIN (pharmacodynamics); SPLEEN (cytology); T-LYMPHOCYTES (metabolism); TESTOSTERONE (pharmacodynamics); THYMIDINE (metabolism); THYOXINE (pharmacodynamics).

Feingold J

[GENETICS OF DIABETES MELLITUS (AUTHORS TRANSL)] Feingold J *Diabete Metab* 1: 123-9, Jun 76 (Fre) [34] DL/77MAR94
DIABETES MELLITUS (familial & genetic); ENGLISH ABSTRACT; FEMALE; GENES; HUMAN; MALE; MODELS, BIOLOGICAL; NUTRITION; REVIEW.

Felber JP

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabete Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

Feldman JM

PLASMA AMINO ACIDS IN PATIENTS WITH THE CARCINOID SYNDROME. Feldman JM, Plonk JW, Admiraal J, Sidbury JB *Cancer* 38: 2127-31, Nov 76 (Eng) DL/77MAR28
AGED; AMINO ACIDS (blood, urine); DIABETES MELLITUS (blood); HUMAN; HYDROXYINDOLEACETIC ACID (urine); MALE; MALIGNANT CARCINOID SYNDROME (blood, secretion, urine); MIDDLE AGE; P-CHLOROPHENYLANILINE (pharmacodynamics); SEROTONIN (biosynthesis); UNITED STATES

GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Felig P

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

CARBOHYDRATES (metabolism); DIABETES MELLITUS (etiopathology, physiopathology); DIETARY PROTEINS; GASTROINTESTINAL SYSTEM (metabolism); GLUCAGON (blood, pharmacodynamics, physiology); GLUCOSE (metabolism); HUMAN; HYPERGLYCEMIA (metabolism); INSULIN (deficiency, physiology); LIVER (drug effects, metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics, physiology); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

INFLUENCE OF GLUCOSE INGESTION ON FUEL-HORMONE RESPONSE DURING PROLONGED EXERCISE. Ahlborg G, Felig P *J Appl Physiol* 41: 683-8, Nov 76 (Eng) DL/77MAR167

Fellenius E

INFLUENCE OF ACETATE ON GLUCOSE METABOLISM IN THE PERFUSED HIND-QUARTER OF THE RAT. Karlsson N, Fellenius E, Kiessling KH *Acta Physiol Scand* 98: 347-55, Nov 76 (Eng) DL/77MAR434

Fenichel RL

A NOVEL CYCLIC UNDERCAPEPTIDE, WY-40, 770, WITH PROLONGED GROWTH HORMONE RELEASE INHIBITING ACTIVITY. Sarantakis D, Teichman J, Lien EL, Fenichel RL *Biochem Biophys Res Commun* 73: 336-42, 22 Nov 76 (Eng) DL/77MAR477

Ferendides R

[BILE COMPOSITION IN PATIENTS WITH HIGH RISK OF CHOLELITHIASIS] Ponz De Leon M, Ferendides R, Carulli N *Minerva Med* 67: 3483-90, 3 Nov 76 (Ita) DL/77MAR284

Ferguson J

ISOLATION AND PRESERVATION OF ISLETS FROM THE MOUSE, RAT, GUINEA-PIG AND HUMAN PANCREAS. Ferguson J, Allsopp RH, Taylor RM, Johnston ID *Br J Surg* 63: 767-73, Oct 76 (Eng) DL/77MAR13

ADULT; AGED; ANIMAL; CHILD; COMPARATIVE STUDY; FEMALE; FREEZING; GUINEA PIGS; HUMAN; INSULIN (metabolism); ISLANDS OF LANGERHANS (cytology, metabolism); MALE; MICE; MIDDLE AGE; RATS; REFRIGERATION; TIME FACTORS; TISSUE CULTURE (methods); TISSUE PRESERVATION (methods); TISSUE SURVIVAL.

Ferguson RJ

HUMAN FIBULAR DYNAMICS. PP. 1-6. Weinert CR Jr, McMaster JH, Scranton PE Jr, Ferguson RJ *In: Bateman JE, ed. Foot science. Philadelphia, Saunders, 1976. WE 880 AS11f 1974. (Eng) *DL/77MAR506*

Ferre P

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL)] Girard J, Ferre P, Gilbert M *Diabete Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106

Ferrero G

[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Deladime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

Ferretti E

CYCLIC AMP CONTROL BY PROSTAGLANDIN E₁ IN NON-PARENCHYMAL LIVER CELLS. Ferretti E, Biondi C, Tomasi V *FEBS Lett* 69: 70-4, 15 Oct 76 (Eng) DL/77MAR74

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; CENTRIFUGATION, DENSITY GRADIENT; GLUCAGON (pharmacodynamics); IN VITRO; LIVER (drug effects, metabolism); MALE; PROSTAGLANDINS E (pharmacodynamics); RATS.

Ferrier TM

SULFONYLUREAS—ACTION AND USES. Ferrier TM *Aust Fam Physician* 5: 865-6, Jul 76 (Eng) DL/77MAR470

AGED; DIABETES MELLITUS (drug therapy); HUMAN; HYPOGLYCEMIA (chemically induced); SULFONYLUREA COMPOUNDS (administration & dosage, adverse effects, therapeutic use); TIME FACTORS.

Fetusov VA

[LIPID ANG GLUCOSE ABSORPTION AFTER VAGOTOMY WITH CONSERVATIVE RESECTION OF THE STOMACH] Postolov PM, Fetusov VA, Missiura NV *Vestn Khir* 114: 29-31, Jan 75 (Rus) *DL/77MAR533

Feurle GE

INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS. Helmstaedt V, Feurle GE, Forssmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

Fex G

THE VALUE OF AMNIOTIC FLUID LECITHIN/SPHINGOMYELIN DETERMINATION IN PREDICTION OF HYALINE MEMBRANE DISEASE. Lofstrand T, Fex G *Acta Obstet Gynecol Scand* 55: 419-27, 1976 (Eng) DL/77MAR425

Filippi A

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Naso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

Finch DRA

PASSIVE ENHANCEMENT OF ISOLATED PANCREATIC ISLET ALLOGRAFTS. Finch DRA, Morris PJ *Transplantation* 22: 508-12, Nov 76 (Eng) DL/77MAR362

ANIMAL; CELL SEPARATION; DIABETES MELLITUS (chemically induced); FEMALE; GRAFT SURVIVAL; IMMUNE SERUMS (pharmacodynamics); ISLANDS OF LANGERHANS (transplantation); RATS; RATS, INBRED LEW; STREPTOZOTOCIN; TRANSPLANTATION IMMUNOLOGY; TRANSPLANTATION, ALLOGENEIC.

Fine SL

DIABETIC MACULAR EDEMA. Patz A, Fine SL *Int Ophthalmol Clin* 16: 105-113, Winter 76 (Eng) DL/77MAR157

Finnik VP

[SPECIFICITY OF THE EFFECT OF GROWTH HORMONE ON DNA CONCENTRATION IN THE NUCLEI OF THE LYMPHOID CELLS OF HYPOPHYSECTOMIZED RATS] Fedotov VP, Finnik VP, Aleshina LV *Biull Eksp Biol Med* 82: 1126-8, Sep 76 (Rus) DL/77MAR10

Fischer F

[MANIFESTATION OF DIABETES (AUTHORS TRANSL)] Fischer F *Klin Monatsbl Augenheilkd* 168: 784-7, Jun 76 (Ger) DL/77MAR231

ADOLESCENCE; ADULT; AGE FACTORS; AGED; AUSTRIA; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (complications); DIABETIC RETINOPATHY (classification, diagnosis, occurrence); ENGLISH ABSTRACT; FEMALE; HUMAN; INFANT; MALE; MIDDLE AGE.

Fisher JK

GLUCAGON-AIDED REDUCTION OF INTUSSUSCEPTION. Fisher JK, Germann DR *Radiology* 122: 197-8, Jan 77 (Eng) DL/77MAR332

BARIUM SULFATE (therapeutic use); CASE REPORT; COLON; ENEMA; GLUCAGON (therapeutic use); HUMAN; ILEUM; INFANT; INTUSSUSCEPTION (therapy); MALE.

Flitts CT

GLUCOSE AND INSULIN RESPONSES IN SHEEP SUBJECTED TO A SECOND EPISODE OF HEMORRHAGIC SHOCK. Fritz SD, Flitts CT, Colwell JA *Am Surg* 42: 899-907, Dec 76 (Eng) DL/77MAR457

Flegel U

[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATICTOMIZED PATIENTS (AUTHORS TRANSL)] Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

Fleischman AI

IN VIVO PLATELET FUNCTION IN DIABETES MELLITUS. Fleischman AI, Bierenbaum ML, Stier A, Somol H, Watson PB *Thromb Res* 9: 467-71, Nov 76 (Eng) DL/77MAR359

AGED; BLOOD PLATELETS (physiology); CHOLESTEROL (blood); DIABETES MELLITUS (blood, diet therapy); FEMALE; HUMAN; LINOLEIC ACIDS (administration & dosage); MALE; MIDDLE AGE; PLATELET AGGREGATION; TRIGLYCERIDES (blood).

Flier JS

CHARACTERIZATION OF ANTIBODIES TO THE INSULIN RECEPTOR: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. Flier JS, Kahn CR, Jarrett DB, Roth J *J Clin Invest* 58: 1442-9, Dec 76 (Eng) DL/77MAR180

ANTIBODIES (analysis); CHROMATOGRAPHY, GEL; CHROMATOGRAPHY, ION EXCHANGE; DIABETES MELLITUS (immunology); HUMAN; IMMUNOGLOBULINS (analysis); INSULIN RESISTANCE; PRECIPITIN TESTS; RECEPTORS, INSULIN.

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

Flores J

THE ACTIVATION OF ADENYLATE CYCLASE BY CHOLERA TOXIN: POSSIBLE INTERACTION WITH THE NUCLEOTIDE REGULATORY SITE. Flores J, Sharp GW *Ciba Found Symp* 42: 89-108, 1976 (Eng) [35] DL/77MAR47

ADENYL CYCLASE (metabolism); ANIMAL; DOSE-RESPONSE RELATIONSHIP, DRUG; ENTEROTOXINS (pharmacodynamics); ENZYME ACTIVATION; GANGLIOSIDES (metabolism); GLUCAGON (pharmacodynamics); GUANINE NUCLEOTIDES (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); LIVER (drug effects, enzymology); NUCLEOTIDES; NAD (pharmacodynamics); RATS; REVIEW; SODIUM FLUORIDE (pharmacodynamics); TOXOIDS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); VIBRIO CHOLERA.

Flores J

Foa PP

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

Folling I

INSULIN-ANTI-INSULIN COMPLEXES. Folling I *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 199-209, 1976 (Eng) DL/77MAR411
ANIMAL; ANTIGEN-ANTIBODY COMPLEX; ANTIGENIC DETERMINANTS; BINDING SITES; ANTIBODY: CHROMATOGRAPHY, GEL; COMPLEMENT; DIABETIC ANGIOPATHIES (immunology); DIABETIC NEUROPATHIES (immunology); GUINEA PIGS; HUMAN; INSULIN ANTIBODIES; INSULIN (immunology); INSULIN (metabolism); MICE; MOLECULAR WEIGHT; ULTRACENTRIFUGATION.

Foltzer C

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabete Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83
ANIMAL; BLOOD SUGAR (metabolism); CORTICOSTERONE (pharmacodynamics); DUCKS; FASTING; GLUCAGON (blood, immunology); GLUCOSE (pharmacodynamics); HYPOPHYSECTOMY; ISLANDS OF LANGERHANS (drug effects, secretion); MALE; PITUITARY GLAND (physiology); PITUITARY GLAND, ANTERIOR (physiology); PITUITARY-ADRENAL SYSTEM (physiology); SOMATOTROPIN (pharmacodynamics).

Fontana A

THE CHEMISTRY OF TRYPTOPHAN IN PEPTIDES AND PROTEINS. Fontana A, Toniolo C *Fortschr Chem Org Naturst* 33: 309-449, 1976 (Eng) [467] DL/77MAR141
CHEMISTRY; CIRCULAR DICHROISM; COLORIMETRY; GLUCAGON (chemical synthesis); GRAMICIDINS (chemical synthesis); HYDROLYSIS; LUMINESCENCE; LH-FSH RELEASING HORMONE (chemical synthesis); MODELS, STRUCTURAL; MOLECULAR CONFORMATION; MYCOTOXINS (chemical synthesis); OXIDATION-REDUCTION; PEPTIDES (chemical synthesis); PHOTOCHEMISTRY; PROTEINS; REVIEW; SPECTROPHOTOMETRY, ULTRAVIOLET; STEREOISOMERS; STRUCTURE-ACTIVITY RELATIONSHIP; TRYPTOPHAN (chemical synthesis, metabolism).

Forssmann WG

INSULIN-, GLUCAGON-, AND SOMATOSTATIN-IMMUNOREACTIVE ENDOCRINE CELLS IN THE EQUINE PANCREAS. Helmstaedt V, Feurle GE, Forssmann WG *Cell Tissue Res* 172: 447-54, 29 Sep 76 (Eng) DL/77MAR31

Foster PA

INTRAVENOUS FLUID THERAPY DURING PROLONGED SURGERY. Foster PA *S Afr Med J* 50: 1659-62, Oct 76 (Eng) DL/77MAR348
ADULT; BLOOD TRANSFUSION; CHILD; FATS (administration & dosage); FRUCTOSE (administration & dosage); GLUCOSE (administration & dosage); HUMAN; INFUSIONS, PARENTERAL; INSULIN (administration & dosage); POSTOPERATIVE CARE; SHOCK, SURGICAL (prevention & control); WATER-ELECTROLYTE BALANCE.

Fournie A

[SIDE EFFECTS OF INDOMETHACIN] Ayrolles C, Fournie A *Therapie* 31: 313-24, May-Jun 76 (Fre) DL/77MAR358

Fowler JE

EFFECTS OF AN EMG BIOFEEDBACK RELAXATION PROGRAM ON THE CONTROL OF DIABETES: A CASE STUDY. Fowler JE, Budzynski TH, VandenBergh RL *Biofeedback Self Regul* 1: 105-12, Mar 76 (Eng) DL/77MAR8
ADULT; BIOFEEDBACK (PSYCHOLOGY) (physiology); CASE REPORT; DIABETES MELLITUS (physiopathology); DOSE-RESPONSE RELATIONSHIP, DRUG; ELECTROMYOGRAPHY; EMOTIONS (physiology); FEMALE; HUMAN; INSULIN (administration & dosage); MUSCLE CONTRACTION; MUSCLE RELAXATION; RELAXATION TECHNIQUES; STRESS, PSYCHOLOGICAL (physiology); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Fox M

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

Fred HL

PNEUMOPERITONEUM AND RIGHT UPPER QUADRANT GAS IN A DIABETIC MAN. Butler CF, Fred HL, Carlson V *JAMA* 236: 2789-90, 13 Dec 76 (Eng) DL/77MAR219

Frederich F

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL)] Ruiton A, Frederich F *Diabete Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

Freychet P

[INSULIN RECEPTORS-A REVIEW (AUTHORS TRANSL)] Freychet P *Diabete Metab* 1: 57-68, Mar 75 (Fre) [82] DL/77MAR86
ADIPOSE TISSUE; ANIMAL; CELL MEMBRANE; ENGLISH ABSTRACT; HUMAN; INSULIN (metabolism); KINETICS; LIVER; LYMPHOCYTES; MICE; MICE, OBESE; MODELS, BIOLOGICAL; MYOCARDIUM; NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY (metabolism); PEPTIDE FRAGMENTS (metabolism); PROINSULIN (metabolism); PROTEIN BINDING; RADIOLIGAND ASSAY; RECEPTORS, INSULIN (metabolism); REVIEW; SPECIES SPECIFICITY; STRUCTURE-ACTIVITY RELATIONSHIP; TEMPERATURE.

Friesen HG

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

Frisina N

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

Fritz SD

GLUCOSE AND INSULIN RESPONSES IN SHEEP SUBJECTED TO A SECOND EPISODE OF HEMORRHAGIC SHOCK. Fritz SD, Fitts CT, Colwell JA *Am Surg* 42: 899-907, Dec 76 (Eng) DL/77MAR457
ANIMAL; BLOOD SUGAR (analysis); HEMATOCRIT; HYDROGEN-ION CONCENTRATION (physiology); INSULIN (blood); LACTATES (blood); POTASSIUM (blood); SHEEP; SHOCK, HEMORRHAGIC (blood).

Froesch ER

BINDING OF INSULIN AND NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY TO ISOLATED PERFUSED RAT HEART MUSCLE EVIDENCE FOR TWO SEPARATE BINDING SITES. Meuli C, Froesch ER *Arch Biochem Biophys* 177: 31-8, Nov 76 (Eng) DL/77MAR465

Fronlich A

[GLISOXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Happ J, Beyer J, Ulreich F, Schoffing K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

Fruchart JC

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND DIABETES (AUTHORS TRANSL)] Jaillard J, Sezille G, Fruchart JC, Dewailly P, Romon M *Diabete Metab* 2: 5-9, Mar 76 (Fre) DL/77MAR113

Fukui I

[DETERMINATION OF SERUM TRIGLYCERIDES] Fukui I, Soyama K, Takano K, Kushiro H, Masaki K *Jpn J Clin Med* 34 suppl: 1910-24, 1976 (Jpn) DL/77MAR226
ATHEROSCLEROSIS (blood); DIABETES MELLITUS (blood); HYPERLIPIDEMIA, ESSENTIAL FAMILIAL (blood); METHODS; NEPHROSIS (blood); TRIGLYCERIDES (blood).

Funakoshi A

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA-REPORT OF 2 CASES AND STUDIES OF 63 CASES IN JAPANESE LITERATURE] Ibayashi H, Funakoshi A, Wakasugi H, Nakayama K, Kimura Y *Jpn J Clin Med* 34: 2788-99, 10 Sep 76 (Jpn) DL/77MAR223

Fusgen I

[CHRONIC GERIATRIC PATIENT IN THE HOSPITAL] Schubert R, Fusgen I *Fortschr Med* 94: 1651-7, 14 Oct 76 (Ger) DL/77MAR142

Fussganger R

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

Gabriel FH

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Teator T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

Galloway JA

THE IMMUNOGENICITY OF INSULIN PREPARATIONS. Chance RE, Root MA, Galloway JA *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 185-98, 1976 (Eng) [38] DL/77MAR410

Gamble DR

EPIDEMIOLOGICAL BACKGROUND TO DIABETES. Gamble DR, Taylor KW *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 161-4, 1976 (Eng) DL/77MAR408
ADOLESCENCE; AGE FACTORS; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (familial & genetic, occurrence); DIABETES MELLITUS, JUVENILE (familial & genetic, occurrence); GREAT BRITAIN; HUMAN; INFANT; SEASONS.

Gamstedt A

[EXPERIENCES WITH MONOCOMPONENT INSULIN] Fagerberg SE, Gamstedt A *Lakartidningen* 73: 4097-9, 17 Nov 76 (Swe) DL/77MAR236

Garcia Guerrero M

[PLASMATIC LEVELS OF GLUCOSE AND INSULIN IN SIBLINGS OF DIABETIC CHILDREN (AUTHORS TRANSL)] Garcia Guerrero M, del Valle Nunez CJ, de Pesquera FG *An Esp Pediatr* 9: 512-8, Sep-Oct 76 (Spa) DL/77MAR458

BLOOD SUGAR; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (blood, familial & genetic); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; SIBLING RELATIONS.

Garoff L

PREDICTION OF FETAL OUTCOME BY URINARY ESTRIOL, MATERNAL SERUM PLACENTAL LACTOGEN, AND ALPHA-FETOPROTEIN IN DIABETES AND HEPATOSIS OF PREGNANCY. Garoff L *Obstet Gynecol* 48: 659-66, Dec 76 (Eng) DL/77MAR295

ALPHA-FETOPROTEINS (analysis); ESTRIOL (urine); FEMALE; FETAL DISTRESS (diagnosis); HUMAN; INFANT, NEWBORN; LIVER DISEASES (blood, urine); PLACENTAL LACTOGEN (blood); PREGNANCY IN DIABETES (blood, urine); PREGNANCY COMPLICATIONS (blood, urine); PREGNANCY.

Gartner K

INVESTIGATIONS ON THE FUNCTION OF THE RAT FORESTOMACH. Kunstyr I, Peters K, Gartner K *Lab Anim Sci* 26: 166-70, Apr 76 (Eng) *DL/77MAR519

Gazzaniga AB

ENDOGENOUS CALORIC SOURCES AND NITROGEN BALANCE: REGULATION IN POSTOPERATIVE PATIENTS. Gazzaniga AB, Day AT, Barlett RH, Wilson AF *Arch Surg* 111: 1357-61, Dec 76 (Eng) DL/77MAR468

ADAPTATION, PHYSIOLOGICAL; ADOLESCENCE; ADULT; AGED; AMINO ACIDS; BLOOD SUGAR (analysis); FEMALE; HUMAN; INSULIN (blood); MALE; MIDDLE AGE; NITROGEN (urine); NUTRITION; NUTRITIONAL REQUIREMENTS; PARENTERAL FEEDING; POSTOPERATIVE CARE; STARVATION (metabolism).

Geeraets WJ

VARIABLES IN CONTROLLED STUDIES OF DIABETIC RETINOPATHY. Geeraets WJ, Carroll NW *Va Med* 103: 806-10, Nov 76 (Eng) DL/77MAR394

BLINDNESS (etiology); DIABETIC RETINOPATHY (classification, complications, therapy); HUMAN; TIME FACTORS.

Geiger R

[[AI-BETA-ALANINE] INSULIN] Geiger R, Geisen K, Regitz G, Summ HD *Hoppe Seylers Z Physiol Chem* 357: 1267-70, Sep 76 (Ger) DL/77MAR149

ALANINE; ANIMAL; BLOOD SUGAR (metabolism); ENGLISH ABSTRACT; HUMAN; IN VITRO; INSULIN (analogs & derivatives, chemical synthesis, metabolism); LIVER (metabolism); LYMPHOCYTES (metabolism); PROTEIN BINDING; RABBITS; RATS.

Geisen K

[[AI-BETA-ALANINE] INSULIN] Geiger R, Geisen K, Regitz G, Summ HD *Hoppe Seylers Z Physiol Chem* 357: 1267-70, Sep 76 (Ger) DL/77MAR149

Genbacev O

LOCALIZATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) BY IMMUNOHISTOCHEMICAL METHOD IN NORMAL AND PATHOLOGICAL HUMAN PLACENTA. PP. 373-8. Genbacev O, Sulovic V *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR188*

FEMALE; GONADOTROPINS, CHORIONIC (analysis); HUMAN; IMMUNOENZYME TECHNIQS; MONOGRAPH (mortality); PLACENTA (analysis); PREGNANCY IN DIABETES (metabolism); PREGNANCY TRIMESTER, FIRST; PREGNANCY TRIMESTER, THIRD; PREGNANCY.

Genuth SM

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

AGE FACTORS; BLOOD SUGAR (metabolism); DIABETES MELLITUS (occurrence); EVALUATION STUDIES; FEMALE; GLUCOSE (diagnostic use); HUMAN; MALE; MASS SCREENING; OHIO; TIME FACTORS.

George JC

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

George YS

SERUM-FREE CULTIVATION OF THYMUS ORGAN FRAGMENTS. Lumb JR, George YS *Fed Proc* 35: 2555-8, Dec 76 (Eng) DL/77MAR77

Gepts W

ISLET CHANGES SUGGESTING A POSSIBLE IMMUNE AETIOLOGY OF HUMAN DIABETES MELLITUS. Gepts W *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 95-106, 1976 (Eng) [124] DL/77MAR422

ANTIBODIES, VIRAL (analysis); AUTOIMMUNE DISEASES (immunology); CHILD; DIABETES MELLITUS (immunology); DIABETES MELLITUS (familial & genetic); DIABETES MELLITUS (pathology); DIABETES MELLITUS, JUVENILE (familial & genetic, immunology); DIABETES MELLITUS, JUVENILE (pathology); HUMAN; INFANT; ISLANDS OF LANGERHANS (immunology, pathology); MALE; REVIEW.

Gerasimova Elu

[STUDY OF THE EFFECT OF ULTRASOUND ON THE SYMPATHETIC-ADRENAL SYSTEM IN WORKERS] Gerasimova Elu *Gig Sanit* 23-9, Aug 76 (Rus) DL/77MAR139

ADAPTATION, PHYSIOLOGICAL; ADRENAL GLANDS (physiology); CATECHOLAMINES (urine); ENGLISH ABSTRACT; EPINEPHRINE (diagnostic use); HUMAN; INDUSTRIAL MEDICINE; INSULIN (diagnostic use); NOISE (adverse effects); SYMPATHETIC NERVOUS SYSTEM (physiology); ULTRASONICS (adverse effects); USSR.

Germann DR

GLUCAGON-AIDED REDUCTION OF INTUSSUSCEPTION. Fisher JK, Germann DR *Radiology* 122: 197-8, Jan 77 (Eng) DL/77MAR332

Gershenson D

FETAL BIPARIETAL DIAMETER AS A PREDICTOR OF A MATURE LECITHIN/SPHINGOMYELIN RATIO. Goldstein P, Gershenson D, Hobbins JC *Obstet*

Gynecol 48: 667-9, Dec 76 (Eng) DL/77MAR296

Geser CA

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabete Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

Ghirlanda G

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

ADULT; ENGLISH ABSTRACT; GLUCAGON (diagnostic use); HUMAN; INSULIN (blood); LIVER CIRRHOSIS (blood); MALE; MIDDLE AGE; SOMATOTROPIN (blood).

[BEHAVIOR OF PLASMA/INSULIN, SOMATOTROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

Giampietro FP

[PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES] Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccili MP *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283

Gibson R

EPIDEMIOLOGY OF DISEASES IN ADULT MALES WITH LEUKEMIA. Gibson R, Graham S, Lilienfeld A, Schuman L, Levin M, Swanson M *J Natl Cancer Inst* 56: 891-8, May 76 (Eng) DL/77MAR216

ADOLESCENCE; ADULT; AGED; ARTHRITIS (occurrence); BACTERIAL INFECTIONS (occurrence); CHILD; DIABETES MELLITUS (occurrence); EPIDEMIOLOGIC METHODS; GOITER (occurrence); HEART DISEASES (occurrence); HEPATITIS, VIRAL, HUMAN (occurrence); HUMAN; HYPERSENSITIVITY (occurrence); LEUKEMIA (etiology, occurrence); MALE; MENINGITIS (occurrence); MIDDLE AGE; RHEUMATIC FEVER (occurrence); RISK; SPONDYLITIS (occurrence); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; VIRUS DISEASES (occurrence).

Gilbert M

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL)] Girard J, Ferre P, Gilbert M *Diabete Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

Gillet M

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER)] Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

Gilroy J

EARLY MANIFESTATIONS AND INVESTIGATION OF CEREBRAL ARTERIOSCLEROSIS. Gilroy J *Practitioner* 217: 66-73, Jul 76 (Eng) [24] DL/77MAR319

Gines D

ANGIOGRAPHY; BASILAR ARTERY; BLOOD SUGAR (analysis); BRAIN (blood supply); CAROTID ARTERY DISEASES (diagnosis); CEREBRAL ARTERIOSCLEROSIS (complications, diagnosis); CEREBROVASCULAR DISORDERS (etiology); CHOLESTEROL (blood); DIABETES MELLITUS (complications); ELECTROCARDIOGRAPHY; ELECTROENCEPHALOGRAPHY; FEMALE; HUMAN; HYPERTENSION (complications); HYPOTHYROIDISM (complications); ISCHEMIA (etiology); MALE; REVIEW; SPINAL PUNCTURE; SYPHILIS SERODIAGNOSIS; TRIGLYCERIDES (blood); URIC ACID (blood); VERTEBRAL ARTERY.

Gines D

DIABETES SEMINAR FOR THE PUBLIC IN A RURAL AREA IN UTAH. Gines D *J Am Diet Assoc* 69: 651-2, Dec 76 (Eng) DL/77MAR184
DIABETES MELLITUS (therapy); DIABETIC DIET; HUMAN; NURSING CARE; OBESITY IN DIABETES (therapy); PATIENTS (education); RURAL POPULATION; UTAH.

Giorgino R

[URINARY EXCRETION OF CATECHOLAMINES IN OBESE SUBJECTS AND IN DIABETICS (AUTHORS TRANSL)] Giorgino R, Nardelli GM, Scardapane R *Diabete Metab* 2: 11-3, Mar 76 (Fre) DL/77MAR108
ADRENAL MEDULLA (physiopathology); ADULT; COMPARATIVE STUDY; DIABETES MELLITUS (physiopathology, urine); ENGLISH ABSTRACT; EPINEPHRINE (urine); FEMALE; HUMAN; MALE; NOREPINEPHRINE (urine); OBESITY (physiopathology, urine).

Girard J

[ENERGY METABOLISM IN THE PERINATAL PERIOD (AUTHORS TRANSL)] Girard J, Ferre P, Gilbert M *Diabete Metab* 1: 241-57, Dec 75 (Fre) [180] DL/77MAR106
ADENOSINE TRIPHOSPHATE (metabolism); AGE FACTORS; AMINO ACIDS (blood); ANIMAL; ANIMALS, NEWBORN (metabolism); ENERGY METABOLISM; ENGLISH ABSTRACT; FATTY ACIDS (metabolism); FEMALE; FAD (metabolism); GLUCAGON (pharmacodynamics, secretion); GLUCONEOGENESIS (drug effects); HUMAN; IN VITRO; INFANT, NEWBORN; INSULIN (pharmacodynamics, secretion); ISLANDS OF LANGERHANS (secretion); LIVER GLYCOGEN (metabolism); LIVER (enzymology); NAD (metabolism); PREGNANCY; RATS; REVIEW.

Girard JR

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

Girardier L

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPER OR HYPOGLYCEMIA IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA *J Physiol (Paris)* 72: 801-14, Nov 76 (Eng) DL/77MAR211
ANIMAL; BLOOD SUGAR; DOGS; ELECTRIC STIMULATION; FEMALE; GLUCAGON (secretion); INSULIN (secretion); ISLANDS OF LANGERHANS (physiology); MALE; SECRETORY RATE; SYMPATHETIC NERVOUS SYSTEM (physiology).

Giron BJ

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C In: *Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR189*

INSULIN SECRETION BY HUMAN PANCREAS CULTURED FOR ONE YEAR. Hollande E, Giron BJ, Rey F, Dutrillaux MC *J Physiol (Paris)* 72: 815-32, Nov 76 (Eng) DL/77MAR212

Gitsch E

[CREATININE DURING PREGNANCY (AUTHORS TRANSL)] Gitsch E *Wien Klin Wochenschr* 88: 740-2, 26 Nov 76 (Ger) DL/77MAR387

AMNIOTIC FLUID (metabolism); CREATININE (blood, metabolism); ENGLISH ABSTRACT; FEMALE; FETUS (physiology); GESTATIONAL AGE; HUMAN; PREGNANCY IN DIABETES (blood); PREGNANCY TOXEMIAS (blood); PREGNANCY.

Gladisch R

[MYOCARDITIS AND INSULITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hofmann W, Waldherr R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

AUTOPSY; CASE REPORT; CHILD; PRESCHOOL; COXSACKIE VIRUS INFECTIONS (complications, pathology); DIABETES MELLITUS, JUVENILE (complications); DIABETIC COMA (complications); ENGLISH ABSTRACT; FEMALE; HEART SEPTAL DEFECTS, ATRIAL (surgery); HUMAN; ISLANDS OF LANGERHANS (pathology); MYOCARDITIS (etiology, pathology); PANCREATITIS (etiology, pathology).

Gluckman PD

PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HORMONE-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-9, Sep 76 (Eng) DL/77MAR42
ADOLESCENCE; BODY HEIGHT; BRAIN NEOPLASMS (complications); CASE REPORT; CHILD; CHILD, PRESCHOOL; FEMALE; GROWTH; HUMAN; HYPOGLYCEMIA (chemically induced); HYPOTHALAMUS; INSULIN (diagnostic use); MALE; PROLACTIN (blood, secretion); SOMATOMEDIN (blood); SOMATOTROPIN (deficiency); TUBERCULOSIS, MENINGEAL (complications).

Goebel FD

[DIABETES MELLITUS AND MICROANGIOPATHY] Goebel FD *Minerva Cardioangiol* 24: 275-80, Apr 76 (Ita) DL/77MAR274
BASEMENT MEMBRANE (pathology); DIABETIC ANGIOPATHIES (pathology); HUMAN; MICROSCOPY, ELECTRON; TIME FACTORS.

Goetz F

TRANSPLANTATION OF THE PANCREAS. Liliehei RC, Ruiz JO, Aquino C, Goetz F *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 303-20, 1976 (Eng) DL/77MAR419

Goldbourt U

UNRECOGNIZED MYOCARDIAL INFARCTION: FIVE-YEAR INCIDENCE, MORTALITY, AND RISK FACTORS. Medalie JH, Goldbourt U *Ann Intern Med* 84: 526-31, May 76 (Eng) *DL/77MAR552

Goldfischer S

LIPID ACCUMULATION IN HUMAN AORTIC SMOOTH MUSCLE CELL LYOSOMES. Coltoff-Schiller B, Goldfischer S, Wolinsky H, Factor SM *Am J Pathol* 83: 39-44, Apr 76 (Eng) *DL/77MAR549

Goldstein P

FETAL BIPARIETAL DIAMETER AS A PREDICTOR OF A MATURE LECITHIN/SPHINGOMYELIN RATIO. Goldstein P, Gershenson D, Hobbins JC *Obstet Gynecol* 48: 667-9, Dec 76 (Eng) DL/77MAR296

AMNIOTIC FLUID (analysis); CEPHALOMETRY; FEMALE; FETUS (physiology); HUMAN; INFANT, NEWBORN; LUNG (embryology); PARIETAL BONE (anatomy & histology); PHOSPHATIDYLCHOLINES (analysis); PREGNANCY IN DIABETES; PREGNANCY; SPHINGOMYELINS (analysis).

Gollnick D

THE NATURE OF THE TRAINING RESPONSE; PERIPHERAL AND CENTRAL ADAPTATIONS OF ONE-LEGGED EXERCISE. Saltin B, Nazari K, Costill DL, Stein E, Jansson E, Essen B, Gollnick D *Acta Physiol Scand* 96: 289-305, Mar 76 (Eng) *DL/77MAR545

Golovanova VB

[ADENOSINE CYCLIC 3,5 MONOPHOSPHATE IN CHILDREN WITH DIABETES MELLITUS] Kniazev luA, Golovanova VB, Vakhruševa LL, Arsenova EN, Ermolenko RI *Vopr Okhr Materin Det* 21: 11-3, Aug 76 (Rus) DL/77MAR375

Gommers A

[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhaye M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

[THE EFFECT OF AGE ON THE IN VITRO RESPONSE TO INSULIN IN THE RAT. I. GLUCOSE METABOLISM ON THE DIAPHRAGM (AUTHORS TRANSL)] Gommers A, Dehez-Delhaye M, Jeanjean M *Gerontology* 23: 134-41, 1977 (Fre) DL/77MAR138
AGING; ANIMAL; CARBON DIOXIDE (biosynthesis); DIAPHRAGM (metabolism); ENGLISH ABSTRACT; GLUCOSE (metabolism); INSULIN (pharmacodynamics); MALE; RATS.

Goodman HC

CHILDHOOD ANTECEDENTS OF ADULT OBESITY. DO CHUBBY INFANTS BECOME OBESE ADULTS? Carney E, Goodman HC, McBride M, Lyon B, Pratt R *N Engl J Med* 295: 6-9, 1 Jul 76 (Eng) *DL/77MAR522

Gorden P

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gorden P, Roth J, Kahn CR, De Meys P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

Gordon EE

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

Goriya Y

[ARTIFICIAL PANCREATIC BETA CELLS—THE PRESENT STATUS AND PROSPECT] Shichiri M, Kawamori T, Goriya Y, Shigeta Y *Jpn J Clin Med* 34: 2886-93, 10 Sep 76 (Jpn) DL/77MAR224

Gottstein U

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

ACIDOSIS (etiology); ARTERIES; BLOOD SUGAR (metabolism); BRAIN (metabolism); CEREBROVASCULAR CIRCULATION; ENGLISH ABSTRACT; GLUCOSE (metabolism); GLYCOLYSIS; HUMAN; HYPERVENTILATION (metabolism, physiopathology); LACTATES (blood); MONITORING SYSTEMS; OXYGEN (blood); VEINS.

Graham S

EPIDEMIOLOGY OF DISEASES IN ADULT MALES WITH LEUKEMIA. Gibson R, Graham S, Lilienfeld A, Schuman L, Levin M, Swanson M *J Natl Cancer Inst* 56: 891-8, May 76 (Eng) DL/77MAR216

Grammelvødt R

INFLUENCE OF INSULIN ON LYSOSOMAL ACTIVITY AND UREA PRODUCTION IN ISOLATED PARENCHYMAL CELLS FROM RAT LIVER. Grammelvødt R, Berg T *Hoppe Seylers Z Physiol Chem* 357: 977-81, Jul 76 (Eng) DL/77MAR147

ACID PHOSPHATASE (metabolism); CELLS, CULTURED; GLUCURONIDASE (metabolism); INSULIN (pharmacodynamics); LIVER (drug effects, metabolism, ultrastructure); LYSOSOMES (drug effects, enzymology); MALE; RATS; TIME FACTORS; UREA (biosynthesis).

Grandguillaume P

[GYNECOLOGIC DISEASES IN THE DIABETIC WOMAN] Rey-Stocker I, Grandguillaume P *Schweiz Med Wochenschr* 106: 1056-9, 31 Jul 76 (Fre) DL/77MAR346

[GYNECOLOGIC DISORDERS IN THE PREVENTION OF JUVENILE DIABETES] Grandguillaume P, Rey I *Soz Praeventivmed* 21: 155-6, Jul-Aug 76 (Fre) DL/77MAR398

ADULT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (complications, prevention & control); ENGLISH ABSTRACT; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; VULVITIS (blood, etiology); VULVOVAGINITIS (blood, etiology).

Grange JD

[PANRETINOPHOTOCOAGULATION] Bonnet M, Pingault C, Grange JD *Klin Oczna* 46: 1289-92, Nov 76 (Pol) DL/77MAR233

Gray RS

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

Greaves M

SMALL INTESTINAL TRANSIT IN DIABETICS. Scarpello JH, Greaves M, Sladen GE *Br Med J* 2: 1225-6, 20 Nov 76 (Eng) DL/77MAR20

Greco AV

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

[BEHAVIOR OF PLASMA/INSULIN, SOMATOTROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBU-

TAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

ADULT; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; INSULIN (blood); LIVER CIRRHOSIS (blood); MALE; MIDDLE AGE; SOMATOTROPIN (blood); TOLBUTAMIDE (diagnostic use).

Greenhill A

LABORATORY EVALUATION OF RENAL FUNCTION. Greenhill A, Gruskin AB *Pediatr Clin North Am* 23: 661-79, Nov 76 (Eng) DL/77MAR304

ACIDOSIS, RENAL TUBULAR (urine); ADOLESCENCE; BACTERIURIA (urine); BLOOD UREA NITROGEN; CHILD; CHILD, PRESCHOOL; CREATININE (diagnostic use); DIABETES MELLITUS, JUVENILE (urine); DIURESIS; ELECTROLYTES (urine); GLOMERULAR FILTRATION RATE; GLYCOSURIA (urine); HEMOGLOBINURIA (urine); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); INFANT; INFANT, NEWBORN; KIDNEY CONCENTRATING ABILITY; KIDNEY FUNCTION TESTS (methods); PREGNANCY; PROTEINURIA (urine); URINE (analysis, cytology).

Greenleaf JE

EFFECT OF PROPRANOLOL ON THYROID-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS. Uscilko HK, Brzezinska Z, Greenleaf JE *Acta Physiol Pol* 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543

Grenier JF

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

ANIMAL; BLOOD SUGAR (analysis); DIABETES MELLITUS (chemically induced, therapy); DIURESIS; ENGLISH ABSTRACT; EVALUATION STUDIES; INSULIN (blood); ISLANDS OF LANGERHANS (transplantation); LIVER; METHODS; RATS; STREPTOZOTOCIN; TRANSPLANTATION, HOMOLOGOUS.

Grgic A

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JJ, Rosenbloom AL, Grgic A, Weber FT *Am J Dis Child* 130: 1324-7, Dec 76 (Eng) DL/77MAR443

Griaznova IM

[LIPID SPECTRUM OF BLOOD IN PREGNANT WOMEN WITH DIABETES MELLITUS] Griaznova IM, Kniazev IaA, Vtorova VG, Sebko TV *Vopr Okhr Materin Det* 21: 75-8, Aug 76 (Rus) DL/77MAR379

ENGLISH ABSTRACT; FEMALE; HUMAN; LIPIDS (blood); PREGNANCY IN DIABETES (blood); PREGNANCY.

Grill V

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

Grinstein S

ACTION OF INSULIN AND CELL CALCIUM: EFFECT OF IONOPHORE A23187. Grinstein S, Ertij D *J Membr Biol* 29: 313-28, 29 Nov 76 (Eng) DL/77MAR214

A-23187 (pharmacodynamics); ADENOSINE CYCLIC 3',5' MONOPHOSPHATE (analogs & derivatives, pharmacodynamics); ANIMAL; ANTIBIOTICS (pharmacodynamics); CAFFEINE (pharmacodynamics); CALCIUM (physiology); DIBUTYRYL CYCLIC AMP (pharmacodynamics); GUANOSINE CYCLIC 3',5' MONOPHOSPHATE (pharmacodynamics); INSULIN (physiology); MEMBRANE POTENTIALS (drug effects); METHYLGLUCOSIDES (metabolism); MUSCLE CONTRACTION (drug effects); MUSCLES (drug effects); RATS; THEOPHYLLINE (pharmacodynamics).

Grodsky GM

INTERACTION OF CALCIUM AND GLUCOSE ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

Groth CG

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Collste H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

ADULT; AMYLASE (blood); BLOOD SUGAR (analysis); DIABETES MELLITUS, JUVENILE (therapy); FEMALE; GRAFT REJECTION; HUMAN; MALE; PANCREAS (transplantation); RADIONUCLIDE IMAGING; TRANSPLANTATION, HOMOLOGOUS.

Grunklee D

[PERSONALITY AND SOCIAL BEHAVIOR OF ADULT DIABETICS] Lohmann R, Meuter F, Petrides P, Grunklee D *Med Welt* 27: 1997-2002, 15 Oct 76 (Ger) DL/77MAR250

Gruskin AB

LABORATORY EVALUATION OF RENAL FUNCTION. Greenhill A, Gruskin AB *Pediatr Clin North Am* 23: 661-79, Nov 76 (Eng) DL/77MAR304

Guillon J

[DIABETES MELLITUS SECONDARY TO LIVER DISEASES. A REVIEW (AUTHORS TRANSL)] Guillon J, Charbonnel B *Diabete Metab* 1: 191-9, Sep 75 (Fre) [58] DL/77MAR101

DIABETES MELLITUS (etiology); ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); HUMAN; HYPERTENSION, PORTAL (complications); HYPOKALEMIA (complications); INSULIN RESISTANCE; INSULIN (blood); LIVER CIRRHOSIS (blood, complications, etiology); PANCREATIC DISEASES (complications); REVIEW; SOMATOTROPIN (blood).

Gumaa KA

PROCEEDINGS: PHARMACOLOGY OF BITIS ARIETANS VENOM. Gumaa KA, Osman OH *West Afr J Pharmacol Drug Res* 2: 92p-93p, Dec 74 (Eng) *DL/77MAR535

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); FEMALE; GUINEA PIGS; IN VITRO; MUSCLE CONTRACTION (drug effects); MUSCLE, SMOOTH (drug effects); POTASSIUM (metabolism); RABBITS; RATS; SNAKE VENOMS (analysis, pharmacodynamics).

Gunnar RM

FAMILIAL GENERALIZED DYSCHROMIC AMYLOIDOSIS CUTIS. Eng AM, Cogan L, Gunnar RM, Bilekys I *J Cutan Pathol* 3: 162-8, 1976 (Eng) DL/77MAR183

Gunnarsson R

REGENERATION OF ISLET CELLS. Hellerstrom C, Andersson A, Gunnarsson R *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 145-60, 1976 (Eng) [73] DL/77MAR406

Guthmann C

Guthmann C

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOOD CELLS. Rousselet A, Guthmann C, Matricon J, Bienvenue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

Gutteberg T

DOPAMINE-BETA-HYDROXYLASE ACTIVITY IN SERUM FOLLOWING ACUTE MYOCARDIAL INFARCTION: AN EVALUATION OF THIS PARAMETER FOR ROUTINE USE AS AN INDEX OF SYMPATHETIC ACTIVITY. Gutteberg T, Borud O, Stromme JH *Clin Chim Acta* 69: 61-6, 17 May 76 (Eng) *DL/77MAR495

ADULT; BLOOD SUGAR (metabolism); DOPAMINE BETA HYDROXYLASE (blood); FEMALE; GLYCERIN (blood); HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (blood, enzymology); PROBABILITY; TIME FACTORS.

Haenel H

[STATISTICAL RELATIONSHIPS BETWEEN FOOD SUPPLY AND THE MORTALITY OF SOME CHRONIC DEGENERATIVE DISEASES IN EIGHT INDUSTRIALLY DEVELOPED COUNTRIES] Haenel H, Ulbricht G, Oehmisch W, Erhardt V *Z Gesamte Hyg* 22: 748-58, 1976 (Ger) DL/77MAR390

CARDIOVASCULAR DISEASES (etiology); CHRONIC DISEASE; DIABETES MELLITUS (etiology); DIET (adverse effects); ENGLAND; ENGLISH ABSTRACT; FINLAND; FRANCE; GASTROINTESTINAL NEOPLASMS (etiology); GERMANY, EAST; HUMAN; JAPAN; LIVER CIRRHOSIS (etiology); NETHERLANDS; POLAND; STATISTICS; UNITED STATES; WALES.

Haettlinger JR

ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLHYDANTOIN. Mackerer CR, Saunders RN, Haettlinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217

Haffen K

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (Fre) DL/77MAR46

Hagenfeldt K

INDIVIDUAL FREE FATTY ACIDS IN AMNIOTIC FLUID AND IN PLASMA OF PREGNANT WOMEN. Hagenfeldt L, Hagenfeldt K *Br J Obstet Gynaecol* 83: 383-6, May 76 (Eng) *DL/77MAR481

Hagenfeldt L

INDIVIDUAL FREE FATTY ACIDS IN AMNIOTIC FLUID AND IN PLASMA OF PREGNANT WOMEN. Hagenfeldt L, Hagenfeldt K *Br J Obstet Gynaecol* 83: 383-6, May 76 (Eng) *DL/77MAR481

AMNIOTIC FLUID (analysis); COMPARATIVE STUDY; FATTY ACIDS, NONESTERIFIED (analysis, blood); FEMALE; GESTATIONAL AGE; HUMAN; PREGNANCY TRIMESTER, SECOND; PREGNANCY TRIMESTER, THIRD; PREGNANCY.

INFLUENCE OF LACTATE INFUSION ON GLUCOSE AND FFA METABOLISM IN MAN. Ahlberg G, Hagenfeldt L, Wahren J *Scand J Clin Lab Invest* 36: 193-201, Mar 76 (Eng) *DL/77MAR530

Diabetes Literature—Author Index

Hahn V

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE *FEBS Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

Haider B

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Oldewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41

Hait G

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

Hall SE

PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

Hamer JD

SKIN RASH IN PATIENT RECEIVING GLUCAGON [LETTER]. Barber SG, Hamer JD *Lancet* 2: 1138, 20 Nov 76 (Eng) DL/77MAR243

Hanoune J

EFFECT OF HIGH LEVEL SECTION OF THE SPINAL CORD ON THE CYCLIC AMP SYSTEM IN RAT LIVER. Vaptzarova K, Hanoune J *Biochim Biophys Acta* 444: 712-8, 22 Oct 76 (Eng) DL/77MAR7

Hansson L

ANTI-HYPERTENSIVE ACTION, TIME OF ONSET AND EFFECTS ON CARBOHYDRATE METABOLISM OF LABETALOL. Andersson O, Berglund G, Hansson L *Br J Clin Pharmacol* 3: 757-61, Aug 76 (Eng) DL/77MAR4

Happ J

[GLISOXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Happ J, Beyer J, Ulreich F, Schoffing K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

BLOOD SUGAR (analysis); CIRCADIAN RHYTHM; DIABETES MELLITUS (blood, drug therapy); ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLISOXEPIDE (administration & dosage, therapeutic use); HUMAN; INSULIN (blood); MALE; MIDDLE AGE; SULFONYLUREA COMPOUNDS (therapeutic use); TIME FACTORS.

Harary H

THE HYDROPHOBIC ADSORPTION OF CHARGED MOLECULES TO BILAYER MEMBRANES: A TEST OF THE APPLICABILITY OF THE STERN EQUATION. McLaughlin S, Harary H *Biochemistry* 15: 1941-8, 4 May 76 (Eng) *DL/77MAR483

Hardstedt C

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Collste H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

Harmeyer J

[INFLUENCE OF HEPARIN ON THE RADIOIMMUNOLOGIC ASSAY OF INSULIN] Schaller K, Harmeyer J, Partale V *Dtsch Tierärztl*

Wochenschr 83: 436-8, 5 Oct 76 (Ger) DL/77MAR54

Harmon JT

EFFECT OF INSULIN ON GLUCOSE TRANSPORT IN DMBA-INDUCED MAMMARY TUMORS. Harmon JT, Hiff R *Eur J Cancer* 12: 933-4, Nov 76 (Eng) DL/77MAR67

ANIMAL; BIOLOGICAL TRANSPORT (drug effects); DEPRESSION, CHEMICAL; DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; GLUCOSE (metabolism); INSULIN (pharmacodynamics); MAMMARY NEOPLASMS, EXPERIMENTAL (chemically induced, metabolism, pathology); RATS; STIMULATION, CHEMICAL; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; 9,10-DIMETHYL-1,2-BENZANTHRACENE (diagnosis).

Harrington MG

EFFECT OF DILUTION ON IMMUNOREACTIVE INSULIN ACTIVITY OF HUMAN PLASMA. Sankaran H, Harrington MG *Ir J Med Sci* 145: 359-68, Nov 76 (Eng) DL/77MAR164

Harrison LC

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBESE HUMAN SUBJECTS. Harrison LC, Martin FL, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

ADIPOSE TISSUE (cytology, metabolism); FEMALE; HUMAN; IN VITRO; INSULIN RESISTANCE; INSULIN (metabolism); MALE; MIDDLE AGE; OBESITY (metabolism); RECEPTORS, INSULIN.

Haser C

[THE QUESTION OF ADVERSE EFFECTS OF CLOFIBRATE. EXPERIENCE IN PATIENTS WITH DIABETES MELLITUS] Haser C, Rahlfs V, Mehnert H *Ther Ggw* 115: 1382-95, Aug 76 (Ger) DL/77MAR357

AGED; CLINICAL RESEARCH; CLOFIBRATE (adverse effects, therapeutic use); DIABETES MELLITUS (drug therapy); HUMAN; MIDDLE AGE.

Hashemi S

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DWARFISM. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

Hashimoto K

A HISTOPATHOLOGICAL STUDY ON THE ISLETS OF LANGERHANS AND DUCTAL EPITHELIAL METAPLASIA IN ATROPHIC LOBULI OF PANCREAS. Suda K, Komatsu K, Hashimoto K *Acta Pathol Jpn* 26: 561-72, Sep 76 (Eng) DL/77MAR429

Haskins RH

EFFECT OF INHIBITORS OF STEROL BIOSYNTHESIS ON GROWTH AND SEXUALITY OF PYTHIUM AND ZYGORHYNCHUS. Child JJ, Haskins RH *Mycopathologia* 59: 91-3, 24 Sep 76 (Eng) DL/77MAR270

Hasslacher C

[HEPATITIS-B (HBS) ANTIGEN AND ANTIBODIES IN DIABETIC PATIENTS] Thamer G, Hasslacher C, Wahl P, Kommerell B *Dtsch Med Wochenschr* 101: 1692-3, 12 Nov 76 (Ger) DL/77MAR50

[RISK FACTORS OF ARTERIOSCLEROSIS IN PATIENTS WITH SEVERE BRADYCARDIA ARRHYTHMIAS] Hasslacher C, Wahl P, Thorpeck R, Nussel E *Z Kardiol* 65: 890-6, Oct 76 (Ger) DL/77MAR393

AGED; ARTERIOSCLEROSIS (complications);
BRADYCARDIA (complications, therapy);
DIABETES MELLITUS (complications);
ENGLISH ABSTRACT; FEMALE; HUMAN;
HYPERLIPIDEMIA (complications);
HYPERTENSION (complications); MALE;
MIDDLE AGE; MYOCARDIAL INFARCT
(complications); OBESITY (complications);
PACEMAKER, ARTIFICIAL; SMOKING.

Haubenreiser H

[SPORTS IN DIABETIC CHILDREN AND
ADOLESCENTS IN THE GERMAN
DEMOCRATIC REPUBLIC] Ludtke E, Hau-
benreiser H, Schukowski H *Aerztl Jugendkd* 67:
273-9, Oct 76 (Ger) DL/77MAR438

Hauteocouverture M

STUDY OF GLUCAGON SECRETION USING IN
VITRO PERFUSION OF RAT PANCREAS
PIECES. Assan R, Plouin PF, Girard JR, Slama
G, Hauteocouverture M, Buneaux JJ *Diabete
Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

Haworth R

GUAR GUM IN DIABETES [LETTER]. Jenkins
DJ, Wolever TM, Haworth R, Leeds AR,
Hockaday TD *Lancet* 2: 1086-7, 13 Nov 76
(Eng) DL/77MAR238

Hazard J

[RESULTS OF LONG TERM USE OF A LOW
DOSE ESTROPROGESTATIN IN DIABETICS
AND HIGH RISK WOMEN] Perlemuter L,
Hazard J, Jouin-Caurier D, Clipet M *Nouv Presse
Med* 5: 2853-6, 11 Dec 76 (Fre) DL/77MAR312

Hearse DJ

MYOCARDIAL ENZYME LOSS: FACTORS
LEADING TO REDUCTION OR EXACERBA-
TION OF RELEASE. Hearse DJ, Humphrey SM
Recent Adv Stud Cardiac Struct Metab 7: 327-34,
1975 (Eng) *DL/77MAR528

ADENOSINE TRIPHOSPHATE (metabolism);
ADENYLATE KINASE (metabolism); ANIMAL
EXPERIMENTS (analysis); ANOXIA
(enzymology); ASPARTATE
AMINOTRANSFERASE (metabolism);
CREATINE KINASE (metabolism); GLUCOSE
(metabolism); HYDROXYBUTYRATE
DEHYDROGENASE (metabolism); MALE;
MYOCARDIUM (enzymology); PERFUSION;
RATS.

Heding LG

SEPARATION OF THE TWO DOUBLE-CHAIN
BOVINE INTERMEDIATES OF THE PROIN-
SULIN-INSULIN CONVERSION I. CHEMI-
CAL, IMMUNOCHEMICAL, CIRCULAR
DICHROISM, AND BIOLOGICAL CHARAC-
TERIZATION. Markussen J, Heding LG *Int J
Pept Protein Res* 8: 597-606, 1976 (Eng)
DL/77MAR156

Hedinger C

[GLUCAGON PRODUCING ADENOMATOSIS
OF ISLANDS OF LANGERHANS WITH
POLYENDOCRINE SYMPTOMS] Woodtli W,
Hedinger C, Ammann R, Zimmermann K, Sau-
berli H *Schweiz Med Wochenschr* 106: 749-54,
29 May 76 (Ger) DL/77MAR337

Hedstrand H

WHAT MIDDLE-AGED MEN KNOW OF THEIR
PARENTS CAUSE OF DEATH AND AGE AT
DEATH. A COMPARISON BETWEEN HISTO-
RY AND DEATH CERTIFICATE. Waern U,
Hedstrand H, Aberg H *Scand J Soc Med* 4: 123-9,
1976 (Eng) DL/77MAR336

Hegre OD

TRANSPLANTATION OF ISLET TISSUE IN THE
RAT. Hegre OD, Leonard RJ, Erlandsen SL,
McEvoy RC, Parsons JA, Elde RP, Lazarow A
Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205:
257-81, 1976 (Eng) DL/77MAR415

AGE FACTORS; ALLOXAN DIABETES
(pathology, therapy); ANIMAL; ANIMALS,
NEWBORN; BLOOD SUGAR (analysis);
COMPARATIVE STUDY; GLUCOSE
TOLERANCE TEST; GRAFT REJECTION;
INSULIN (blood); ISLANDS OF LANGERHANS
(embryology, pathology, transplantation); RATS;
RATS, INBRED STRAINS; TISSUE DONORS;
TRANSPLANTATION, ALLOGENEIC;
TRANSPLANTATION, ISOGENEIC; UNITED
STATES GOVERNMENT SUPPORTED, N.I.H.).

Held K

[EFFECT OF HYPERVENTILATION ON
CEREBRAL BLOOD FLOW AND METABOL-
ISM IN MAN; CONTINUOUS MONITORING
OF ARTERIO-CEREBRAL VENOUS GLU-
COSE DIFFERENCES (AUTHORS TRANSL.)]
Gottstein U, Zahn U, Held K, Gabriel FH, Textor
T, Berghoff W *Klin Wochenschr* 54: 373-81, 15
Apr 76 (Ger) *DL/77MAR518

Hellerstrom C

EFFECTS OF D-GLYCERALDEHYDE AND D-
GLUCOSE OF THE INSULIN RELEASE OF
PANCREATIC ISLETS ISOLATED FROM
THE NEWBORN RAT. Agren A, Andersson A,
Hellerstrom C *FEBS Lett* 72: 185-8, 15 Nov 76
(Eng) DL/77MAR75

REGENERATION OF ISLET CELLS. Hellerstrom
C, Andersson A, Gunnarsson R *Acta Endocrinol
[Suppl] (Kbh)* 83 SUPPL 205: 145-60, 1976
(Eng) [73] DL/77MAR406

ANIMAL; CELL DIFFERENTIATION; CELL
DIVISION; DIABETES MELLITUS (etiology);
DNA (biosynthesis); HUMAN; INSULIN
(secretion); ISLANDS OF LANGERHANS
(cytology, growth & development, physiology);
MICE; REGENERATION; REVIEW.

Hellman B

ON THE POSSIBLE ROLE OF THIOL GROUPS
IN THE INSULIN-RELEASING ACTION OF
MERCURIALS, ORGANIC DISULFIDES, AL-
KYLATING AGENTS, AND SULFONYLU-
REAS. Hellman B, Lernmark A, Sehlin J,
Soderberg M, Taljedal IB *Endocrinology* 99:
1398-406, Nov 76 (Eng) DL/77MAR61

ANIMAL; CELL MEMBRANE (drug effects);
CHLOROMERCURIPHENYLSULFONATE
(pharmacodynamics); GLIBENCLAMIDE
(metabolism, pharmacodynamics); INSULIN
(secretion); IODOACETAMIDE
(pharmacodynamics); ISLANDS OF
LANGERHANS (analysis, drug effects, secretion);
MICE; SERUM ALBUMIN (metabolism);
SULFHYDRYL COMPOUNDS (analysis,
physiology); SULFHYDRYL REAGENTS
(pharmacodynamics).

Helmstaedt V

INSULIN-, GLUCAGON-, AND SO-
MATOSTATIN-IMMUNOREACTIVE EN-
DOCRINE CELLS IN THE EQUINE PAN-
CREAS. Helmstaedt V, Feurle GE, Forssmann
WG *Cell Tissue Res* 172: 447-54, 29 Sep 76
(Eng) DL/77MAR31

ANIMAL; ANTIGENS; FLUORESCENT
ANTIBODY TECHNIC; GLUCAGON (analysis);
HORSES (anatomy & histology); INSULIN
(analysis); ISLANDS OF LANGERHANS
(cytology, immunology); SOMATOTROPIN
RELEASE INHIBITING HORMONE (analysis,
immunology).

Henderson JR

THE EFFECT OF ATROPINE ON THE INSULIN
RELEASE CAUSED BY ORAL AND IN-
TRAVENOUS GLUCOSE IN HUMAN SUB-
JECTS. Henderson JR, Jefferys DB, Jones RH,
Stanley D *Acta Endocrinol (Kbh)* 83: 772-80,
Dec 76 (Eng) DL/77MAR401

ADMINISTRATION, ORAL; ADULT;
ATROPINE (pharmacodynamics);
COMPARATIVE STUDY; GLUCOSE

TOLERANCE TEST (methods); GLUCOSE
(administration & dosage); HEART RATE (drug
effects); HUMAN; INJECTIONS,
INTRAVENOUS; INSULIN (secretion); MALE;
SECRETORY RATE (drug effects).

Hendler R

INSULIN, GLUCAGON, AND SOMATOSTATIN
IN NORMAL PHYSIOLOGY AND DIABETES
MELLITUS. Felig P, Wahren J, Sherwin R, Hen-
dler R *Diabetes* 25: 1091-9, Dec 76 (Eng)
DL/77MAR123

Hendrich CE

THE EFFECT OF MATERNAL HYPOTHY-
ROIDISM ON MATERNAL AND FETAL TIS-
SUE GLUCOSE-1-14C INCORPORATION IN
RATS. Porterfield SP, Hendrich CE *Horm Res* 6:
236-46, 1975 (Eng) *DL/77MAR504

Henley WL

LEUCOCYTE-MIGRATION INHIBITION IN-
DUCED BY UVEORETINAL ANTIGEN IN PA-
TIENTS WITH DIABETIC RETINOPATHY.
Aviner Z, Henley WL, Okas S, Leopold IH
Diabetes 25: 1106-9, Dec 76 (Eng)
DL/77MAR125

Henquin JC

POTASSIUM IONS AND INSULIN RELEASE.
Henquin JC, Lambert AE *J Physiol (Paris)* 72:
747-56, Nov 76 (Eng) DL/77MAR206

ANIMAL; GLUCOSE (pharmacodynamics);
HUMAN; INSULIN (secretion); ISLANDS OF
LANGERHANS (drug effects, secretion); MICE;
POTASSIUM (pharmacodynamics); RABBITS;
SECRETORY RATE (drug effects).

Herchuelz A

CALCIUM ANTAGONISTS AND ISLET FUNC-
TION. VIII. THE EFFECT OF MAGNESIUM.
Malaisse WJ, Devis G, Herchuelz A, Sener A,
Somers G *Diabete Metab* 2: 1-4, Mar 76 (Eng)
DL/77MAR107

Hershko A

EARLY EFFECTS OF SERUM ON
PHOSPHOLIPID METABOLISM IN UN-
TRANSFORMED AND ONCOGENIC VIRUS-
TRANSFORMED CULTURED FIBROBLASTS.
Ciechanover A, Hershko A *Biochem Biophys Res
Commun* 73: 85-91, 8 Nov 76 (Eng)
DL/77MAR475

Hertz MM

BLOOD-BRAIN BARRIER STUDIES IN THE
RAT: AN INDICATOR DILUTION
TECHNIQUE WITH TRACER SODIUM AS AN
INTERNAL STANDARD FOR ESTIMATION
OF EXTRACEREBRAL CONTAMINATION.
Hertz MM, Bolwig TG *Brain Res* 107: 333-43, 7
May 76 (Eng) *DL/77MAR490

ANIMAL EXPERIMENTS (analysis); BLOOD
SUGAR (metabolism); BLOOD-BRAIN
BARRIER; CAROTID ARTERY, INTERNAL
(physiology); MALE; METHODS;
RADIOISOTOPE DILUTION TECHNIC; RATS;
SODIUM RADIOISOTOPES (diagnostic use).

Hetenyi G

PLASMA GLUCAGON IN PUPS, DECREASED
BY FASTING, UNAFFECTED BY SO-
MATOSTATIN OR HYPOGLYCEMIA. Hetenyi
G, Kovacevic N, Hall SE, Vranic M *Am J Physiol*
231: 1377-82, Nov 76 (Eng) DL/77MAR450

AGE FACTORS; ANIMAL; ANIMALS,
NEWBORN; DOGS; DUODENUM (metabolism);
FASTING; GLUCAGON (blood, metabolism);
HYPOGLYCEMIA (blood); PANCREAS
(metabolism); SOMATOTROPIN RELEASE
INHIBITING HORMONE (pharmacodynamics);
STOMACH (metabolism).

Hetenyi G

Heuck CC

[HYPERTRIGLYCERIDEMIA IN RATS FOLLOWING GLUCOSE INFUSION--AN ANIMAL EXPERIMENT MODEL FOR THE STUDY OF TYPE IV HYPERLIPIDEMIA PATHOGENESIS] Heuck CC *Verh Dtsch Ges Inn Med* 81: 1446-9, 1975 (Ger) *DL/77MAR538

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); FRUCTOSE (adverse effects); HYPERLIPIDEMIA (chemically induced); LIPOPROTEINS, VLDL (blood); MODELS, BIOLOGICAL; RATS; TRIGLYCERIDES (blood).

Heuclin C

CHARACTERIZATION OF PHENFORMIN AND METABOLITES IN PLASMA. Heuclin C, Pene F, Savouret JF, Assan R *Diabete Metab* 1: 234-40, Dec 75 (Eng) DL/77MAR105

ANIMAL; BIGUANIDES (analysis, blood); CHROMATOGRAPHY, THIN LAYER; COLORIMETRY (methods); HUMAN; LACTATES (blood); PHENFORMIN (analysis, blood); RATS.

Heuser D

EVIDENCE AGAINST H& AND K& AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *Ino Betz E, ed. Ionic actions on vascular smooth muscle. Berlin, Springer, 1976. W3 SY732 1976i. (Eng) DL/77MAR187*

Hiatt N

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

ALDOSTERONE (pharmacodynamics); ANIMAL; BLOOD SUGAR (metabolism); DOGS; DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; GLUCAGON (pharmacodynamics); INSULIN (pharmacodynamics); MALE; MYOCARDIAL CONTRACTION (drug effects); NEPHRECTOMY; PANCREATCTOMY; POTASSIUM (antagonists & inhibitors, toxicity); RENIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Hiif R

EFFECT OF INSULIN ON GLUCOSE TRANSPORT IN DMBA-INDUCED MAMMARY TUMORS. Harmon JT, Hiif R *Eur J Cancer* 12: 933-4, Nov 76 (Eng) DL/77MAR67

Hinterberger U

PROTEIN SYNTHESIS IN CELL-FREE SYSTEMS FROM TOTALLY ISCHEMIC RAT MYOCARDIUM. Hinterberger U, Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 7: 341-7, 1975 (Eng) *DL/77MAR529

ANIMAL EXPERIMENTS (analysis); CELL-FREE SYSTEM; CORONARY DISEASE (metabolism); CYTOSOL (metabolism); KINETICS; MUSCLE PROTEINS (biosynthesis); MYOCARDIUM (metabolism); PHENYLALANINE (metabolism); POLY U (metabolism); POLYRIBOSOMES (metabolism); RATS; RIBOSOMES (metabolism); RNA, RIBOSOMAL (metabolism); TIME FACTORS; TRANSLATION, GENETIC.

Hobbins JC

FETAL BIPARIETAL DIAMETER AS A PREDICTOR OF A MATURE LECITHIN/SPHINGOMYELIN RATIO. Goldstein P, Gershenson D, Hobbins JC *Obstet Gynecol* 48: 667-9, Dec 76 (Eng) DL/77MAR296

Diabetes Literature—Author Index

Hockaday TD

GUAR GUM IN DIABETES [LETTER]. Jenkins DJ, Wolever TM, Haworth R, Leeds AR, Hockaday TD *Lancet* 2: 1086-7, 13 Nov 76 (Eng) DL/77MAR238

Hofmann W

[MYOCARDITIS AND INSULINITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hofmann W, Waldherr R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

Hohne WE

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE *FEBS Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

Holdaway IM

PROLACTIN AND SOMATOMEDIN STUDIES IN THE SYNDROME OF GROWTH HORMONE-INDEPENDENT GROWTH. Gluckman PD, Holdaway IM *Clin Endocrinol (Oxf)* 5: 545-9, Sep 76 (Eng) DL/77MAR42

Hollande E

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 I35 no.2 1975. (Eng) DL/77MAR189*

CULTURE MEDIA; HUMAN; HYPERINSULINISM (congenital, complications, physiopathology); HYPOGLYCEMIA (etiology); IMMUNOENZYME TECHNIQUES; INFANT; INSULIN (secretion); ISLANDS OF LANGERHANS (cytology, secretion); MONOGRAPH (mortality); RADIOIMMUNOASSAY; TEMPERATURE; TISSUE CULTURE.

INSULIN SECRETION BY HUMAN PANCREAS CULTURED FOR ONE YEAR. Hollande E, Giron BJ, Rey F, Dutrillaux MC *J Physiol (Paris)* 72: 815-32, Nov 76 (Eng) DL/77MAR212

CELLS, CULTURED; FEMALE; HUMAN; IN VITRO; INFANT; ISLANDS OF LANGERHANS (secretion); ORGAN CULTURE; PANCREATIC NEOPLASMS (pathology, secretion, ultrastructure); RADIOIMMUNOASSAY; TIME FACTORS; TISSUE CULTURE.

Holohan P

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195

Holstein P

TOLERANCE AND ACCEPTABLE DAILY INTAKE OF ETHYLENE DICHLORIDE IN THE CHICKEN DIET. Alumot E, Meidler M, Holstein P *Food Cosmet Toxicol* 14: 111-4, Apr 76 (Eng) *DL/77MAR503

Hong SK

PROPERTIES OF TOAD SKIN NA-K-ATPASE WITH SPECIAL REFERENCE TO EFFECT OF TEMPERATURE. Park YS, Hong SK *Am J Physiol* 231: 1356-63, Nov 76 (Eng) DL/77MAR449

Honma K

EFFECTS OF NOREPINEPHRINE AND THYROXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Moriya K, Maekubo H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

Horigome K

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

Horni J

[EFFECT OF MINERAL WATER ON THE SECRETION OF INSULIN IN AN ACUTE EXPERIMENT] Horni J, Vodza J *Fysiatr Reumatol Vestn* 54: 236-42, Oct 76 (Cze) DL/77MAR145

DIABETES MELLITUS (physiopathology, therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (secretion); MALE; MINERAL WATERS.

Hossmann KA

CEREBRAL UPTAKE OF GLUCOSE AND OXYGEN IN THE CAT BRAIN AFTER PROLONGED ISCHEMIA. Hossmann KA, Sakaki S, Kimoto K *Stroke* 7: 301-5, May-Jun 76 (Eng) *DL/77MAR531

ADENOSINE DIPHOSPHATE (analysis); ADENOSINE MONOPHOSPHATE (analysis); ADENOSINE TRIPHOSPHATE (analysis); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BRAIN (blood supply, metabolism); CATS; CEREBROVASCULAR DISORDERS (metabolism); FEMALE; GLUCOSE (metabolism); ISCHEMIA (metabolism); LACTATES (analysis); MALE; OXYGEN CONSUMPTION; PYRUVATES (analysis); TIME FACTORS.

Houser HB

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatzl, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

Hover BA

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

Huber W

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Nasso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

Huen AH

PATHOGENESIS AND CHARACTERIZATION OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. Emmanouel DS, Jaspán JB, Kuku SF, Rubenstein AH, Katz AI, Huen AH *J Clin Invest* 58: 1266-72, Nov 76 (Eng) DL/77MAR177

Hughes AS

LETTER: EFFECT OF SKIN-CLEANING AGENTS ON DEXTROSTIX READINGS. Ball SG, Hughes AS *Br Med J* 1: 1279, 22 May 76 (Eng) *DL/77MAR489

Hulst SG

TREATMENT OF INSULIN-INDUCED LIPOATROPHY. Hulst SG *Diabetes* 25: 1052-4, Nov 76 (Eng) DL/77MAR119

ADIPOSE TISSUE (pathology); ADOLESCENCE; ATROPHY (chemically induced, drug therapy); CHILD; DIABETES MELLITUS (drug therapy); DIABETES MELLITUS, JUVENILE (pathology); FEMALE; HUMAN; INSULIN (adverse effects, standards, therapeutic use); INSULIN, LENTE (therapeutic use); MALE; SEX FACTORS.

Diabetes Literature—Author Index

Jaeger H

Humphrey SM

MYOCARDIAL ENZYME LOSS: FACTORS LEADING TO REDUCTION OR EXACERBATION OF RELEASE. Hearse DJ, Humphrey SM *Recent Adv Stud Cardiac Struct Metab* 7: 327-34, 1975 (Eng) *DL/77MAR528

Hung W

IMPAIRED GLUCOSE, INSULIN, AND ADENOSINE 3,5-MONOPHOSPHATE RESPONSES TO GLUCAGON IN GROWTH HORMONE DEFICIENT CHILDREN. August GP, Hung W *J Clin Endocrinol Metab* 43: 1029-35, Nov 76 (Eng) DL/77MAR169

Huszcza A

[DIABETIC RETINOPATHY TREATED WITH PHOTOCOAGULATION] Ogieska E, Baran L, Huszcza A *Klin Oczna* 46: 1277-9, Nov 76 (Pol) DL/77MAR232

Huttner WB

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

Iatsozhinskii IuD

[VOCATIONAL REHABILITATION OF PATIENTS WITH DIABETES MELLITUS WHO HAVE UNDERGONE SURGERY FOR PULMONARY TUBERCULOSIS] Iatsozhinskii IuD, Petraniuk EI, Molotkov VN, Kriuchkov VE *Vrach Delo* 108-11, Jul 76 (Rus) DL/77MAR383

ADOLESCENCE; ADULT; DIABETES MELLITUS (complications, rehabilitation); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; REHABILITATION, VOCATIONAL; TUBERCULOSIS, PULMONARY (complications, rehabilitation, surgery).

Ibayashi H

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA—REPORT OF 2 CASES AND STUDIES OF 63 CASES IN JAPANESE LITERATURE] Ibayashi H, Funakoshi A, Wakasugi H, Nakayama K, Kimura Y *Jpn J Clin Med* 34: 2788-99, 10 Sep 76 (Jpn) DL/77MAR223

ADULT; AGED; CASE REPORT; DIABETIC COMA (metabolism); FEMALE; HUMAN; HYPERGLYCEMIC HYPEROSMOLAR NONKETOTIC COMA (metabolism); MALE; MIDDLE AGE.

Ibrahim IM

REVASCULARIZATION OF THE PERONEAL ARTERY. Dardik H, Ibrahim IM, Sprayregen S, Dardik I *Surg Gynecol Obstet* 143: 946-8, Dec 76 (Eng) DL/77MAR354

Idahl LA

STUDIES ON THE FUNCTION OF PANCREATIC ISLET CELL MEMBRANES. Idahl LA, Lernmark A, Schlin J, Taljedal IB *J Physiol (Paris)* 72: 729-46, Nov 76 (Eng) DL/77MAR205

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ALLOXAN (pharmacodynamics); AMINO SUGARS (physiology); ANIMAL; BIOLOGICAL TRANSPORT; CELL MEMBRANE (drug effects, physiology); GLUCOSE (physiology); INSULIN (secretion); ISLANDS OF LANGERHANS (physiology); MICE; SULFHYDRYL COMPOUNDS (pharmacodynamics); SULFONYLUREA COMPOUNDS (pharmacodynamics).

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Schlin J, Taljedal IB *Diabetes Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

ANIMAL; CELLS, CULTURED; CLOSTRIDIOPEPTIDASE A; EPINEPHRINE (pharmacodynamics); FEMALE; GLUCOSE (metabolism, pharmacodynamics); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (metabolism, secretion); KINETICS; MICE; MICE, OBESE; OXIDATION-REDUCTION; PERFUSION.

Iezzi M

[PRELIMINARY RESULTS OF AN EPIDEMIOLOGICAL SURVEY FOR DIABETES] Capani F, Della Loggia F, Del Ponte A, Iezzi M, Giampietro FP, Braccili MP *Minerva Med* 67: 3343-6, 27 Oct 76 (Ita) DL/77MAR283

Ince BW

PLASMA INSULIN LEVELS IN TELEOSTS DETERMINED BY A CHARCOAL-SEPARATION RADIOIMMUNOASSAY TECHNIQUE. Thorpe A, Ince BW *Gen Comp Endocrinol* 30: 332-9, Nov 76 (Eng) DL/77MAR134

Innocenti M

[PRELIMINARY OBSERVATIONS ON THE BEHAVIOR OF IMMUNOGLOBULINS IN DIABETICS TREATED BY DIFFERENT METHODS] Bruno A, Innocenti M, Pasquino M, Pugliese F, Zola P *Minerva Med* 67: 3255-60, 20 Oct 76 (Ita) DL/77MAR280

Ip C

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res* 17: 588-99, Nov 76 (Eng) DL/77MAR195

ADIPOSE TISSUE (cytology, drug effects, metabolism); ANIMAL; BLOOD SUGAR (metabolism); BODY WEIGHT; CONCAVALIN A; DIETARY CARBOHYDRATES; DIETARY FATS; GLUCOSE (pharmacodynamics); GLYCOLYSIS (drug effects); INSULIN (blood, metabolism, pharmacodynamics); KINETICS; MALE; PHOSPHOLIPASE; RATS; RECEPTORS, INSULIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Irvine WJ

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

ADOLESCENCE; ADULT; AGED; AUTOANTIBODIES (isolation & purification); AUTOIMMUNE DISEASES; CHILD; DIABETES MELLITUS (immunology); DIABETES MELLITUS (diagnosis); DIABETES MELLITUS, JUVENILE (etiology); DIABETES MELLITUS, JUVENILE (etiology); DIABETES MELLITUS, JUVENILE (immunology); FEMALE; GLUCOSE TOLERANCE TEST; HL-A (isolation & purification); HUMAN; ISLANDS OF LANGERHANS (immunology); MALE; MIDDLE AGE; ORGAN SPECIFICITY; PREDIABETIC STATE (diagnosis, etiology, immunology).

ORGAN-SPECIFIC CELL-MEDIATED AUTOIMMUNITY IN DIABETES MELLITUS. Irvine WJ, Mac Cuish AC, Campbell CJ, Duncan LJ *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 65-76, 1976 (Eng) DL/77MAR421

ADOLESCENCE; ADULT; AGED; ANTIGENS; AUTOANTIBODIES (analysis); CELL MIGRATION INHIBITION; DIABETES MELLITUS (immunology); DIABETES MELLITUS, JUVENILE (immunology); FEMALE; HUMAN; IMMUNITY, CELLULAR; INSULIN (immunology, pharmacodynamics); ISLANDS OF LANGERHANS (immunology); LEUKOCYTES (immunology); LYMPHOCYTE TRANSFORMATION; LYMPHOCYTES (immunology); MALE; MIDDLE AGE.

Ishii S

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

Isselbacher KJ

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

Itoh S

EFFECTS OF NOREPINEPHRINE AND THYROXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Morioka K, Maekubo H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

Ivanov NA

CERTAIN BIOCHEMICAL PARAMETERS OF PSYCHOGENIAS. PP. 541-6. Ivanov NA *Ino Levi L, ed. Emotions: their parameters and measurement. New York, Raven Press, 1975. WL 102 E54 1975. (Eng) *DL/77MAR510*

ACUTE DISEASE; ADENOSINE TRIPHOSPHATE (metabolism); BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); CATECHOLAMINES (metabolism); CHRONIC DISEASE; CONSCIOUSNESS DISORDERS (metabolism); DEPRESSION (metabolism); DIURNAL RHYTHM; DOPA (urine); DOPAMINE (urine); EPINEPHRINE (urine); FEMALE; HUMAN; HYSTERIA (metabolism); MALE; MANDELIC ACIDS (urine); MONOGRAPH (mortality); NOREPINEPHRINE (urine); PARANOIA (metabolism); PHOSPHORUS (metabolism); PSYCHOPHYSIOLOGIC DISORDERS (metabolism); STRESS, PSYCHOLOGICAL.

Iwai H

EFFECT OF PHLORIZIN ON GLUCOSE TRANSPORT IN THE INNER EAR. Takeda T, Makimoto K, Murata K, Suehiro S, Iwai H *Acta Otolaryngol (Stockh)* 81: 424-8, May-Jun 76 (Eng) *DL/77MAR541

Izquierdo I

EVIDENCES FOR A CORRELATION BETWEEN HIPPOCAMPAL RNA AND LEARNING. Izquierdo I *Acta Physiol Lat Am* 25: 324-31, 1975 (Eng) DL/77MAR432

ANIMAL; ELECTRIC STIMULATION; HIPPOCAMPUS (metabolism); INJECTIONS, INTRAPERITONEAL; INSULIN (blood); LEARNING; MEMORY; RATS; RNA (biosynthesis, metabolism); TRANQUILIZING AGENTS (pharmacodynamics).

Jack RL

TECHNIQUES OF ARGON LASER PHOTOCOAGULATION OF DIABETIC DISK NEW VESSELS. Little HL, Zweng HC, Jack RL, Vassiliadis A *Am J Ophthalmol* 82: 675-83, Nov 76 (Eng) DL/77MAR447

Jaeger A

[HYPEROSMOLAR COMATOSE STATES] Mantz JM, Tempe JD, Jaeger A, Kurtz D *Minerva Med* 67: 3643-60, 14 Nov 76 (Ita) DL/77MAR288

Jaeger H

[GAS CHROMATOGRAPHIC ANALYSIS OF BLOOD LIPOPROTEINS DURING TREATMENT WITH A DIET HIGH IN FAT AND PROTEIN] Jaeger H, Ditschuneit H *Verh Dtsch Ges Inn Med* 81: 1411-5, 1975 (Ger) *DL/77MAR537

CHILD; CHROMATOGRAPHY, GAS; DIET, REDUCING; DIETARY FATS (administration & dosage); DIETARY PROTEINS (administration & dosage);

Jaffe RB

dosage); HUMAN; LIPOPROTEINS (blood); OBESITY (blood, diet therapy).

Jaffe RB

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, *Facog Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

Jaillard J

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND DIABETES (AUTHORS TRANSL)] Jaillard J, Sezille G, Fruchart JC, Dewailly P, Romon M *Diabet Metab* 2: 5-9, Mar 76 (Fre) DL/77MAR113

ADIPOSE TISSUE (enzymology, metabolism); ADOLESCENCE; ADULT; DIABETES MELLITUS (enzymology); ENGLISH ABSTRACT; HUMAN; LIPOPROTEIN LIPASE (metabolism); MALE; MIDDLE AGE; OBESITY IN DIABETES (enzymology); OBESITY (enzymology).

Jakobsen J

NEUROPATHY IN EXPERIMENTAL DIABETES [LETTER]. Jakobsen J, Lundbaek K *Br Med J* 2: 878-9, 9 Oct 76 (Eng) DL/77MAR17

ANIMAL; DIABETIC NEUROPATHIES

(pathology); NERVE FIBERS (pathology); RATS.

Jan JE

FAMILIAL CONGENITAL MONOCHROMATISM, CATARACTS, AND SENSORINEURAL DEAFNESS. Jan JE, Tze WJ, Johnston AC, Dunn HG *Am J Dis Child* 130: 1349-50, Dec 76 (Eng) DL/77MAR444

CASE REPORT; CATARACT (familial & genetic); COLOR BLINDNESS (congenital, familial & genetic); DEAFNESS (familial & genetic); FEMALE; HUMAN; HYPERINSULINISM (familial & genetic); INFANT; SYNDROME.

Janczewska E

HISTOENZYMATIC EXAMINATION OF TROPHOBLAST FROM EARLY PREGNANCY COMPLICATED BY DIABETES MELLITUS. Liebhart M, Janczewska E, Klosinska-Kita E *Acta Med Pol* 17: 175-82, 1976 (Eng) DL/77MAR436

Janeczko D

[DIABETIC NEPHROPATHIES AND THEIR TREATMENT] Janeczko D *Pol Tyg Lek* 31: 1989-92, 15 Nov 76 (Pol) DL/77MAR314

ADULT; CHILD; DIABETES MELLITUS, JUVENILE (therapy); DIABETIC NEPHROPATHIES (diet therapy, drug therapy, therapy); HEMODIALYSIS; HUMAN.

Janik J

[SOURCE DOCUMENTS FOR ELECTRONIC DATA PROCESSING IN SELECTED EYE DISEASES] Majewska K, Czechowicz-Janicka K, Janik J, Semenik H, Ruszkowski J, Dorozewski J *Klin Oczna* 46: 999-1003, Sep 76 (Pol) DL/77MAR235

Jansson E

THE NATURE OF THE TRAINING RESPONSE; PERIPHERAL AND CENTRAL ADAPTATIONS OF ONE-LEGGED EXERCISE. Saltin B, Nazar K, Costill DL, Stein E, Jansson E, Essen B, Gollnick D *Acta Physiol Scand* 96: 289-305, Mar 76 (Eng) *DL/77MAR545

Jarabak JP

HYPOGLYCEMIC PATIENTS REQUIRE SPECIAL PRECAUTIONS. Paravecchio R, Jarabak JP *Dent Stud* 34: 61, Feb 76 (Eng) DL/77MAR79

Jarrett DB

CHARACTERIZATION OF ANTIBODIES TO THE INSULIN RECEPTOR: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. Flier JS, Kahn CR, Jarrett DB, Roth J *J Clin Invest* 58: 1442-9, Dec 76 (Eng) DL/77MAR180

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

ANTIGEN-ANTIBODY REACTIONS; AUTOANTIBODIES; BINDING, COMPETITIVE; CELLS, CULTURED; DIABETES MELLITUS (immunology); HUMAN; INSULIN RESISTANCE; INSULIN (metabolism); KINETICS; LYMPHOCYTES (analysis); RECEPTORS, INSULIN (analysis, immunology).

Jarrousse C

REGULATION BY GLUCOSE AND CYCLIC NUCLEOTIDES OF THE GLUCAGON AND INSULIN RELEASE INDUCED BY AMINO ACIDS. Jarrousse C, Rosselin G *Diabet Metab* 1: 135-42, Sep 75 (Eng) DL/77MAR95

ACETYLCHOLINE (pharmacodynamics); ALANINE (pharmacodynamics); AMINO ACIDS (pharmacodynamics); ANIMAL; ARGININE (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); DRUG SYNERGISM; GLUCAGON (secretion); GLUCOSE (pharmacodynamics); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); LYSINE (pharmacodynamics); RATS; SODIUM CHLORIDE (pharmacodynamics); STIMULATION, CHEMICAL; THEOPHYLLINE (pharmacodynamics).

Japan JB

PATHOGENESIS AND CHARACTERIZATION OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. Emmanouel DS, Japan JB, Kuku SF, Rubenstein AH, Katz AI, Huen AH *J Clin Invest* 58: 1266-72, Nov 76 (Eng) DL/77MAR177

Jaton AL

ALPHA ADRENERGIC CONTROL OF GROWTH HORMONE IN ADULT MALE RATS. Ruch W, Jaton AL, Bucher B, Marbach P, Doepfner W *Experientia* 32: 529-31, 15 Apr 76 (Eng) *DL/77MAR501

Jayashree C

NEUROCHEMICAL CORRELATES OF ALLOXAN DIABETES: PROTEIN AND RIBONUCLEIC ACID LEVELS IN THE DIFFERENT REGIONS OF THE RAT BRAIN. Jayashree C, Nayeemunnisa *Experientia* 32: 1412-3, 15 Nov 76 (Eng) DL/77MAR71

ALLOXAN DIABETES (metabolism); ANIMAL; BRAIN (metabolism); CEREBELLUM (metabolism); FEMALE; MALE; MEDULLA OBLONGATA (metabolism); NERVE TISSUE PROTEINS (metabolism); OPTIC LOBE (metabolism); RATS; RNA (metabolism).

Jeanjean M

[THE EFFECT OF AGE ON THE IN VITRO INSULIN RESPONSE IN THE RAT. II. GLUCOSE METABOLISM IN EPIDIDYMAL ADIPOSE TISSUE (AUTHORS TRANSL)] Jeanjean M, Dehez-Delhay M, Gommers A *Gerontology* 23: 127-33, 1977 (Fre) DL/77MAR137

ADIPOSE TISSUE (metabolism); AGING; ANIMAL; DIAPHRAGM (metabolism); ENGLISH ABSTRACT; EPIDIDYMIS (metabolism); FATTY ACIDS (biosynthesis); GLUCOSE (metabolism); INSULIN (pharmacodynamics); MALE; OXIDATION-REDUCTION; RATS.

[THE EFFECT OF AGE ON THE IN VITRO RESPONSE TO INSULIN IN THE RAT. I. GLUCOSE METABOLISM ON THE DIAPHRAGM (AUTHORS TRANSL)] Gommers A, Dehez-Delhay M, Jeanjean M *Gerontology* 23: 134-41, 1977 (Fre) DL/77MAR138

Jeanrenaud B

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBESE-HYPERGLYCEMIC (OB/OB) MICE. Cuendet GS, Loten EG, Jeanrenaud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173

Jeejeebhoy K

ISOLATED MAMMALIAN HEPATOCYTES IN CULTURE. Jeejeebhoy K, Phillips MJ *Gastroenterology* 71: 1086-96, Dec 76 (Eng) [121] DL/77MAR132

ANIMAL; BILE ACIDS AND SALTS (metabolism); BLOOD PROTEINS (biosynthesis); CARBOHYDRATES (metabolism); CARCINOGENESIS; CELL MEMBRANE (ultrastructure); CELL NUCLEUS (ultrastructure); CELL SEPARATION; CELL SURVIVAL; CELLS, CULTURED; CLOSTRIDIOPOLYMERASE A; CULTURE MEDIA; CYTOLOGICAL TECHNIQS; CYTOPLASM (ultrastructure); DEXAMETHASONE (pharmacodynamics); FATTY ACID SYNTHETASE COMPLEX (biosynthesis); FEMALE; HYALURONIDASE; HYDROGEN-ION CONCENTRATION (physiology); INSULIN (pharmacodynamics); LIPIDS (metabolism); LIVER (cytology, metabolism); PERFUSION; PREGNANCY; RATS; REVIEW.

Jefferys DB

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

Jehle J

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosier M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

Jenkins DJ

GUAR GUM IN DIABETES [LETTER]. Jenkins DJ, Wolever TM, Haworth R, Leeds AR, Hockaday TD *Lancet* 2: 1086-7, 13 Nov 76 (Eng) DL/77MAR238

CASE REPORT; CELLULOSE (therapeutic use); DIABETES MELLITUS (diet therapy); DIETARY CARBOHYDRATES (administration & dosage); DIETARY FIBER (administration & dosage, therapeutic use); GLYCOSURIA (diagnosis, therapy); HUMAN; HYPERGLYCEMIA (therapy); MALE; MIDDLE AGE.

Jennings AS

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chiasson JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

Jequier E

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E.

Diabetes Literature—Author Index

Katayanagi T

Felber JP *Diabetes Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

Jerle JJ

USE OF GLUCAGON AS THE HYPOTONIC AGENT IN BARIUM ENEMA EXAMINATION. Jerle JJ *J Am Osteopath Assoc* 76: 264-71, Dec 76 (Eng) DL/77MAR186
BARIUM SULFATE (diagnostic use); COLON (radiography); GLUCAGON (diagnostic use); HUMAN.

Jerums G

THE BIGUANIDES: ACTION AND CLINICAL INDICATIONS. Jerums G *Aust Fam Physician* 5: 1002, 1005, Aug 76 (Eng) DL/77MAR471
BIGUANIDES (adverse effects, therapeutic use); DIABETES MELLITUS (drug therapy); HUMAN; HYPERGLYCEMIA (drug therapy); METFORMIN (therapeutic use); PHENFORMIN (therapeutic use).

John TM

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCHII). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

Johnston AC

FAMILIAL CONGENITAL MONOCHROMATISM, CATARACTS, AND SENSORINEURAL DEAFNESS. Jan JE, Tze WJ, Johnston AC, Dunn HG *Am J Dis Child* 130: 1349-50, Dec 76 (Eng) DL/77MAR444

Johnston GP

PHOTOCOAGULATION IN DIABETIC RETINOPATHY. Arribas NP, Johnston GP, Okun E *Int Ophthalmol Clin* 16: 59-77, Winter 76 (Eng) DL/77MAR160

Johnston ID

ISOLATION AND PRESERVATION OF ISLETS FROM THE MOUSE, RAT, GUINEA-PIG AND HUMAN PANCREAS. Ferguson J, Allsopp RH, Taylor RM, Johnston ID *Br J Surg* 63: 767-73, Oct 76 (Eng) DL/77MAR13

Jonatha EM

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabetes Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

Jones RH

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

Jonsson A

A SEMIAUTOMATED METHOD FOR THE ESTIMATION OF SERUM HAPTOGLOBIN LEVELS. Shepherd DN, Jonsson A *Biochem Med* 16: 152-6, Oct 76 (Eng) DL/77MAR473

Jost A

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (Eng) DL/77MAR116

Jouin-Caurier D

[RESULTS OF LONG TERM USE OF A LOW DOSE ESTROPROGESTATIN IN DIABETICS

AND HIGH RISK WOMEN] Perlemuter L, Hazard J, Jouin-Caurier D, Clipet M *Nouv Presse Med* 5: 2853-6, 11 Dec 76 (Fre) DL/77MAR312

Judd JT

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutmer RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526

Junker K

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

Kacew S

EFFECTS OF SUBSACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacew S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

Kaess H

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dorner M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

Kahn CR

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gordon P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

CHARACTERIZATION OF ANTIBODIES TO THE INSULIN RECEPTOR: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. Flier JS, Kahn CR, Jarrett DB, Roth J *J Clin Invest* 58: 1442-9, Dec 76 (Eng) DL/77MAR180

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

Kai Y

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

Kaiser M

PHYSIOLOGIC SIGNIFICANCE OF GLUCOCORTICOID AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-53, Dec 76 (Eng) DL/77MAR251

Kalinina LM

[INFLUENCE OF FEATURES OF THE ACT OF DELIVERY IN DIABETIC WOMEN ON THE CONCENTRATION OF GLUCOCORTICOID HORMONES IN THE BLOOD AND URINE OF NEWBORNS] Kalinina LM *Akush Ginekol (Mosk)* 5: 44-7, May 76 (Rus) DL/77MAR455
ADULT: ENGLISH ABSTRACT: FEMALE; GLUCOCORTICOID (metabolism); HUMAN; INFANT, NEWBORN; LABOR

PRESENTATION; PREGNANCY IN DIABETES (metabolism); PREGNANCY.

Kalista V

[THE PROBLEM OF INCREASING MORBIDITY RATE AMONG MEMBERS OF HOMES FOR THE AGED] Kalista V *Cesk Zdrav* 24: 386-9, Sep 76 (Cze) DL/77MAR34
AGED; CZECHOSLOVAKIA; DIABETES MELLITUS (occurrence); FEMALE; HOMES FOR THE AGED; HUMAN; MALE; MENTAL DISORDERS (occurrence); MORBIDITY; URINARY INCONTINENCE (occurrence).

Kaluzny J

[PRELIMINARY EXPERIENCES IN THE TREATMENT OF RETINAL DISEASES WITH ARGON LASER] Pecoldowa K, Kaluzny J *Klin Oczna* 46: 1305-11, Nov 76 (Pol) DL/77MAR234

Kammula RG

METABOLISM OF KETONE BODIES BY OVINE BRAIN IN VIVO. Kammula RG *Am J Physiol* 231: 1490-4, Nov 76 (Eng) DL/77MAR451
ACETOACETATES (metabolism); ANIMAL; BLOOD SUGAR (analysis); BRAIN (metabolism); CARBON DIOXIDE (metabolism); FASTING; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HYDROXYBUTYRATES (metabolism); INSULIN (blood); KETONE BODIES (blood, metabolism); KETOSIS (blood, metabolism); LACTATES (blood, metabolism); SHEEP; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Kaneko T

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

Kapoor M

UV DIFFERENCE SPECTROSCOPIC STUDIES OF THE INTERACTION OF ALLOSTERIC LIGANDS AND NEUROSPORA PYRUVATE KINASE. O'Brien MD, Kapoor M *FEBS Lett* 58: 366-9, 15 Oct 75 (Eng) *DL/77MAR502

Karlsson N

INFLUENCE OF ACETATE ON GLUCOSE METABOLISM IN THE PERFUSED HIND-QUARTER OF THE RAT. Karlsson N, Fellenius E, Kiessling KH *Acta Physiol Scand* 98: 347-55, Nov 76 (Eng) DL/77MAR434
ACETATES (metabolism, pharmacodynamics); ANIMAL; CULTURE MEDIA; FEMALE; GLUCOSE (metabolism); GLYCOGEN (metabolism); HINDLIMB; INSULIN (pharmacodynamics); LACTATES (biosynthesis, metabolism); LIPIDS (metabolism); MUSCLES (metabolism); NUCLEOTIDES (metabolism); OXYGEN CONSUMPTION (drug effects); PERFUSION; PHOSPHATES (metabolism); PYRUVATES (metabolism); RATS.

Kasemir H

HIGH AND LOW AFFINITY INSULIN ANTIBODIES. Kerp L, Kasemir H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 211-22, 1976 (Eng) DL/77MAR412

Katalin K

[THE INCIDENCE OF DIABETES MELLITUS IN OBESITY-ASSOCIATED HYPERTENSION] Erno K, Katalin K *Orv Hetil* 117: 2737-8, 7 Nov 76 (Hun) DL/77MAR301

Katayanagi T

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

Diabetes Literature—Author Index

Kato K

Kato K

[STUDIES ON CLINICAL PREDICTION OF MYOCARDIAL INFARCTION: QUANTIFICATIONS OF CORONARY RISK FACTORS (AUTHORS TRANSL.) Kato K *Jpn Circ J* 40: 1041-3, 1055-66, Sep 76 (*Jpn*) DL/77MAR222
AGE FACTORS; ANGINA PECTORIS (occurrence); CHOLESTEROL (blood); DIABETES MELLITUS (occurrence); ELECTROCARDIOGRAPHY; ENGLISH ABSTRACT; HUMAN; HYPERTENSION (occurrence); MYOCARDIAL INFARCT (diagnosis, occurrence); RISK.

Katsilambros N

DIABETIC RETINOPATHY AND BLOOD-SUGAR [LETTER]. Katsilambros N *Lancet* 2: 1253, 4 Dec 76 (*Eng*) DL/77MAR245
BLOOD SUGAR (analysis); DIABETIC RETINOPATHY (blood); FEMALE; HUMAN; MALE.

Katz AI

PATHOGENESIS AND CHARACTERIZATION OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. Emmanouel DS, Jaspas JB, Kuku SF, Rubenstein AH, Katz AI, Huen AH *J Clin Invest* 58: 1266-72, Nov 76 (*Eng*) DL/77MAR177

Kauffmann G

[TRANSDUCED KIDNEY PUNCTURE. NEW PROCEDURE FOR WITHDRAWAL OF KIDNEY TISSUE] Mathias K, Rohrbach R, Strecker EP, Kauffmann G *Fortschr Med* 94: 1700-4, 21 Oct 76 (*Ger*) DL/77MAR143

Kaufmann SJ

IN DIABETIC DIETS, REALISM GETS RESULTS. Kaufmann SJ *Nursing (Jenkintown)* 6: 75-7, Nov 76 (*Eng*) DL/77MAR291
ADULT; DIABETIC DIET; FEMALE; FOOD PREFERENCES; HUMAN; MALE; PATIENT COMPLIANCE.

Kawamori T

[ARTIFICIAL PANCREATIC BETA CELLS--THE PRESENT STATUS AND PROSPECT] Shichiri M, Kawamori T, Goriya Y, Shigeta Y *Jpn J Clin Med* 34: 2886-93, 10 Sep 76 (*Jpn*) DL/77MAR224

Kedar I

IN VITRO SYNTHESIS OF AMYLOID FIBRILS FROM INSULIN, CALCITONIN AND PARATHYROID. Kedar I, Ravid M, Sohar E *Isr J Med Sci* 12: 1137-40, Oct 76 (*Eng*) DL/77MAR1
AMYLOID (biosynthesis); ANIMAL; CALCITONIN (metabolism); IN VITRO; INSULIN (metabolism); KIDNEY (metabolism); LYSOSOMES (metabolism); MICE; PARATHYROID HORMONE (metabolism); STAINS AND STAINING.

Kedinger M

[INTRAHEPATIC IMPLANTATION OF PANCREATIC ENDOCRINE ISLETS. ITS EFFICACY IN THE TREATMENT OF EXPERIMENTAL DIABETES] Grenier JF, Haffen K, Kedinger M, Dauchel J, Eloy R *Chirurgie* 102: 256-66, Mar 76 (*Fre*) DL/77MAR46

Keen H

ARTERIAL PRESSURE IN CLINICALLY APPARENT DIABETICS. Keen H, Track NS, Sowry GS *Diabete Metab* 1: 159-78, Sep 75 (*Eng*) DL/77MAR98
ADOLESCENCE; ADULT; AGE FACTORS; AGED; BLOOD PRESSURE; BODY HEIGHT; BODY WEIGHT; CHILD; DIABETES MELLITUS (complications, physiopathology); FEMALE; HUMAN; HYPERTENSION (complications); HYPOTENSION (complications); MALE; MIDDLE AGE; RACIAL

STOCKS; SEX FACTORS; SOCIOECONOMIC FACTORS.

Keller R

CYCLIC NUCLEOTIDES AND CRUSTACEAN BLOOD GLUCOSE LEVELS. Spindler KD, Willig A, Keller R *Comp Biochem Physiol [A]* 54: 301-4, 1976 (*Eng*) *DL/77MAR496

Keller U

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chiasson JL, Liljenquist JE, Jennings AS, Keller U, Lucy WW *J Clin Invest* 58: 1407-18, Dec 76 (*Eng*) DL/77MAR178

Kendall MJ

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Linton SP, Scott PH, Kendall MJ *Br Med J* 2: 877-8, 9 Oct 76 (*Eng*) DL/77MAR16

Kennedy C

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (*Eng*) *DL/77MAR532

ANIMAL EXPERIMENTS (analysis); BRAIN MAPPING; DOMINANCE, CEREBRAL; GLUCOSE (metabolism); MACACA; MONKEYS; VISUAL CORTEX (metabolism).

Kennell C

OUTPATIENT MANAGEMENT OF THE JUVENILE DIABETIC. Kennell C *Pediatr Nurs* 2: 19-20, 23, Nov-Dec 76 (*Eng*) DL/77MAR305
ADAPTATION, PSYCHOLOGICAL; AMBULATORY CARE; BACTERIAL INFECTIONS (prevention & control); CHILD; DIABETES MELLITUS, JUVENILE (diet therapy, drug therapy, therapy); HUMAN; INSULIN (therapeutic use).

Keogh B

THE EFFECTS OF LONG-TERM ALTERNATE-DAY STEROIDS ON PARAMETERS OF ADRENAL FUNCTION IN RENAL TRANSPLANT PATIENTS. Keogh B, Chu TM, Murphy GP *J Urol* 115: 487-9, May 76 (*Eng*) *DL/77MAR516
ADRENAL GLANDS (drug effects); ADULT; ANDROGENS (urine); BLOOD SUGAR (analysis); DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; HUMAN; HYDROCORTISONE (blood); KIDNEY (transplantation); MALE; METHYLPREDNISOLONE (administration & dosage, pharmacodynamics); MIDDLE AGE; PITUITARY-ADRENAL FUNCTION TESTS; SEX FACTORS; TRANSPLANTATION, HOMOLOGOUS (transplantation); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; 17-KETOSTEROIDS (urine).

Keran EE

REGULATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN UTERINE TISSUE IN ORGAN CULTURE. Keran EE, Barker KL *Endocrinology* 99: 1386-97, Nov 76 (*Eng*) DL/77MAR60
ANIMAL; CYCLOHEXIMIDE (pharmacodynamics); DACTINOMYCIN (pharmacodynamics); DEOXYADENOSINE (pharmacodynamics); ENZYME INDUCTION (drug effects); ESTRADIOL (pharmacodynamics); FEMALE; GLUCOSEPHOSPHATE DEHYDROGENASE (biosynthesis, metabolism); INSULIN (pharmacodynamics); KINETICS; ORGAN CULTURE; RATS; UTERUS (enzymology).

Kerp L

HIGH AND LOW AFFINITY INSULIN ANTIBODIES. Kerp L, Kasemir H *Acta Endocrinol [Suppl] (Kbh)* 83: SUPPL 205: 211-22, 1976 (*Eng*) DL/77MAR412
ANTIBODY SPECIFICITY; BINDING SITES, ANTIBODY; DIABETES MELLITUS (drug therapy, immunology); HUMAN; IGG; INSULIN ANTIBODIES (analysis); INSULIN ANTIBODIES (biosynthesis); INSULIN (immunology, therapeutic use).

Kervran A

EFFECT OF ENVIRONMENTAL TEMPERATURE ON GLUCOSE-INDUCED INSULIN RESPONSE IN THE NEWBORN RAT. Kervran A, Gilbert M, Girard JR, Assan R, Jost A *Diabetes* 25: 1026-30, Nov 76 (*Eng*) DL/77MAR116
AGE FACTORS; ANIMAL; ANIMALS, NEWBORN (physiology); BLOOD SUGAR (metabolism); BODY TEMPERATURE; CESAREAN SECTION; COMPARATIVE STUDY; FEMALE; GLUCAGON (blood); GLUCOSE (diagnostic use); HYPOTHERMIA (metabolism); INSULIN (blood); PHENTOLAMINE (pharmacodynamics); PREGNANCY; RATS.

Keye WR

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (*Eng*) DL/77MAR299
ADULT; AMENORRHEA (drug therapy, etiology); CASE REPORT; FEMALE; HUMAN; HYPERTROPHY; HYPOTHYROIDISM (blood, complications, drug therapy, pathology); INSULIN (diagnostic use); LEVODOPA (diagnostic use); PITUITARY GLAND (pathology, physiology); PREGNANCY; PROLACTIN (blood); SELLA TURCICA; SOMATOTROPIN (blood); THYROTROPIN RELEASING HORMONE (diagnostic use); THYROTROPIN (blood); TRIIODOTHYRONINE (therapeutic use); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Khanna SS

HISTOPATHOLOGICAL EFFECTS OF GLUCAGON IN A FRESH WATER TELEOST CLARIAS BATRACHUS L.: PART I--THE ENDOCRINE, PANCREAS, BLOOD GLUCOSE AND TISSUE GLYCOGEN. Bhatt SD, Khanna SS *Indian J Exp Biol* 14: 145-9, Mar 76 (*Eng*) DL/77MAR153
HISTOPATHOLOGY OF THE ENDOCRINE PANCREAS OF A FRESH-WATER FISH, CLARIAS BATRACHUS L. VII. EFFECTS OF HYDROCORTISONE AND THYROXINE ADMINISTRATION. Bhatt SD, Khanna SS *Acta Biol Acad Sci Hung* 27: 25-35, 1976 (*Eng*) DL/77MAR399

Khasanov SA

[PHLEGMON OF THE LARYNX IN A PATIENT WITH DIABETES COMPLICATED BY MEDIASTINITIS] Khasanov SA *Zh Ushn Nos Gorl Bolez* 102-3, Sep-Oct 76 (*Rus*) DL/77MAR396
CASE REPORT; DIABETES MELLITUS (complications); HUMAN; LARYNGEAL DISEASES (complications); MALE; MIDDLE AGE; PHLEGMON (complications).

Khidyrov KhN

[SECONDARY DIABETIC XANTHOMATOSIS] Khidyrov KhN, Plechistova LA *Vestn Dermatol Venerol* 66-8, Jul 76 (*Rus*) DL/77MAR395
ADULT; CASE REPORT; DIABETES MELLITUS (complications); HUMAN; MALE; SKIN DISEASES (etiology); XANTHOMATOSIS (etiology).

Diabetes Literature—Author Index

Koh ET

Klessling KH

INFLUENCE OF ACETATE ON GLUCOSE METABOLISM IN THE PERFUSED HIND-QUARTER OF THE RAT. Karlsson N, Fellenius E, Klessling KH *Acta Physiol Scand* 98: 347-55, Nov 76 (Eng) DL/77MAR434

Kim DN

STUDY OF DRUGS AFFECTING CHOLESTEROL-INDUCED ATHEROSCLEROSIS IN RABBITS. Kwak YS, Lee KT, Kim DN *Adv Exp Med Biol* 67: 149-67, 1976 (Eng) *DL/77MAR547

Kim WA

SOME PROBLEMS INVOLVED IN POSTEM-BEDDING STAINING. PP. 109-15. Vogt A, Tkamiya H, Kim WA *In: Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR190*

Kimoto K

CEREBRAL UPTAKE OF GLUCOSE AND OXYGEN IN THE CAT BRAIN AFTER PROLONGED ISCHEMIA. Hossmann KA, Sakaki S, Kimoto K *Stroke* 7: 301-5, May-Jun 76 (Eng) *DL/77MAR531

Kimura H

[DETERMINATION OF SERUM AND URINARY CYCLIC AMP AND GMP] Kimura H *Jpn J Clin Med* 34 suppl: 2369-70, 1976 (Jpn) [80] DL/77MAR230

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (analysis, blood, urine); **ADOLESCENCE**; **CATECHOLAMINES** (pharmacodynamics); **CHILD, PRESCHOOL; FEMALE; GLUCAGON** (pharmacodynamics); **GUANOSINE CYCLIC 3,5 MONOPHOSPHATE** (analysis, blood, urine); **HUMAN; INFANT; INFANT, NEWBORN; MALE; PARATHYROID HORMONE** (pharmacodynamics); **PSEUDOHYPOPARATHYROIDISM** (urine); **REVIEW.**

Kimura Y

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA—REPORT OF 2 CASES AND STUDIES OF 63 CASES IN JAPANESE LITERATURE] Ibayashi H, Funakoshi A, Wakasugi H, Nakayama K, Kimura Y *Jpn J Clin Med* 34: 2788-99, 10 Sep 76 (Jpn) DL/77MAR223

Kinast H

[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATICTOMIZED PATIENTS (AUTHORS TRANSL.)] Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

King KC

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R *Diabetes* 25: 1118-22, Dec 76 (Eng) DL/77MAR127

King RF

THE STRUCTURE OF HAEM IN PYRIDINE/WATER MIXTURES AND ITS IMPLICATION IN STUDIES OF HAEM CATABOLISM. Brown SB, King RF *Biochem J* 153: 479-83, 1 Feb 76 (Eng) *DL/77MAR555

Kipnis DM

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

Kivirikko KI

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerblom HK, Kivirikko KI *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

Kjellstrand CM

TRANSPLANTATION VERSUS DIALYSIS IN HIGH RISK PATIENTS. PP. 702-9. Kjellstrand CM, Mauer SM, Shideman JR, Simmons RL, Buselmeier TJ, Najarian JS *In: Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 1N446 1975a. (Eng) DL/77MAR192*

ADOLESCENCE; ADULT; AGE FACTORS; CADAVER; CHILD; CHILD, PRESCHOOL; COMPARATIVE STUDY; DIABETIC NEPHROPATHIES (therapy); **HEMODIALYSIS** (mortality); **HUMAN; INFANT; INFANT, NEWBORN; KIDNEY FAILURE, CHRONIC** (therapy); **KIDNEY FAILURE, CHRONIC** (mortality); **KIDNEY** (transplantation); **MIDDLE AGE; MONOGRAPH** (mortality); **RISK; TRANSPLANTATION, HOMOLOGOUS.**

Klatt D

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE *FEBs Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

Klauber GT

SACRAL AGENESIS. ANALYSIS OF 22 CASES. White RI, Klauber GT *Urology* 8: 521-5, Dec 76 (Eng) DL/77MAR365

Klein C

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PANCREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

ANIMAL; AUTORADIOGRAPHY; ENGLISH ABSTRACT; FEMALE; FISHES; ISLANDS OF LANGERHANS (innervation, metabolism); **MALE; MICROSCOPY, ELECTRON; NOREPINEPHRINE** (metabolism).

Kloppel G

INSULIN INDUCED INSULITIS. Kloppel G *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 107-21, 1976 (Eng) DL/77MAR403

ACUTE DISEASE; ANIMAL; AUTOIMMUNE DISEASES; CATTLE; CHRONIC DISEASE; DIABETES MELLITUS (etiology, immunology); **GUINEA PIGS; IMMUNITY, CELLULAR; IMMUNIZATION; INSULIN ANTIBODIES** (administration & dosage); **INSULIN** (immunology); **ISLANDS OF LANGERHANS** (immunology, pathology, ultrastructure); **PANCREATITIS** (etiology, immunology, pathology); **RABBITS; SHEEP.**

Klosinska-Kita E

HISTOENZYMATIC EXAMINATION OF TROPHOBLAST FROM EARLY PREGNANCY COMPLICATED BY DIABETES MELLITUS. Liebhart M, Janczewska E, Klosinska-Kita E *Acta Med Pol* 17: 175-82, 1976 (Eng) DL/77MAR436

Kniazev IuA

[ADENOSINE CYCLIC 3,5 MONOPHOSPHATE IN CHILDREN WITH DIABETES MELLITUS] Kniazev IuA, Golovanova VB, Vakhruшева LL, Arsenova EN, Ermolenko RI *Vopr Okhr Materin Det* 21: 11-3, Aug 76 (Rus) DL/77MAR375

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (blood); **ADOLESCENCE; BLOOD SUGAR** (analysis); **CHILD; CHILD, PRESCHOOL;**

DIABETES MELLITUS, JUVENILE (blood); **ENGLISH ABSTRACT; HUMAN; INSULIN** (blood); **LIPIDS** (blood).

[LIPID SPECTRUM OF BLOOD IN PREGNANT WOMEN WITH DIABETES MELLITUS] Grianova IM, Kniazev IuA, Vtorova VG, Sebko TV *Vopr Okhr Materin Det* 21: 75-8, Aug 76 (Rus) DL/77MAR379

Knopf RF

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

Kobayashi Y

ORNITHINE DECARBOXYLASE IN RAT SMALL INTESTINE: STIMULATION WITH FOOD OR INSULIN. Maudsley DV, Leif J, Kobayashi Y *Am J Physiol* 231: 1557-61, Nov 76 (Eng) DL/77MAR452

Kobberling J

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Willms B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

Koch G

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL.)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

Koerner DR

ABNORMAL CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA ON GUAM. Koerner DR *Diabetes* 25: 1055-65, Nov 76 (Eng) DL/77MAR120

ADULT; AGE FACTORS; AGED; AMYOTROPHIC LATERAL SCLEROSIS (complications, metabolism); **ATROPHY; CARBOHYDRATES** (metabolism); **DIABETES MELLITUS** (complications); **EXERTION; FEMALE; GLUCOSE TOLERANCE TEST; GUAM; HUMAN; MALE; MIDDLE AGE; MUSCLES** (pathology); **PARKINSONISM** (complications, metabolism); **PSYCHOSES, ORGANIC** (complications, metabolism).

Koerner F

DIABETIC RETINOPATHY STUDY. ASSESSMENT AND COMPARISON OF RETINAL LESIONS FOR COMPUTER ANALYSIS. Koerner F, Eichenseher N, Koerner U *Albrecht von Graefes Arch Klin Ophthalmol* 201: 47-56, 18 Nov 76 (Eng) DL/77MAR456

DIABETIC RETINOPATHY (diagnosis); **DIAGNOSIS, COMPUTER ASSISTED; FUNDUS OCULI; HUMAN; MEDICAL RECORDS.**

Koerner U

DIABETIC RETINOPATHY STUDY. ASSESSMENT AND COMPARISON OF RETINAL LESIONS FOR COMPUTER ANALYSIS. Koerner F, Eichenseher N, Koerner U *Albrecht von Graefes Arch Klin Ophthalmol* 201: 47-56, 18 Nov 76 (Eng) DL/77MAR456

Koh ET

EFFECT OF ANTI-INSULIN SERUM ON THE HEPATIC LIPID METABOLISM OF BHE

Koivisto VA

RATS. Berdanier CD, Koh ET *Am J Clin Nutr* 29: 1190-5, Nov 76 (Eng) DL/77MAR440

Koivisto VA

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerblom HK, Kivirikko KI *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

Kollmeyer KR

MAGNESIUM-INDUCED BRADYCARDIA [LETTER]. Berns AS, Kollmeyer KR *Ann Intern Med* 85: 760-1, Dec 76 (Eng) DL/77MAR460

Kolodina LN

[SOME CHARACTERISTICS OF LACTATION IN WOMEN WITH RENAL GLYCOSURIA AND PREDIABETES] Kolodina LN *Akush Ginekol (Mosk)* 65-6, Jun 76 (Rus) DL/77MAR454

ADOLESCENCE; ADULT; FEMALE; GLYCOSURIA, RENAL (physiopathology); HUMAN; LACTATION; MILK, HUMAN (analysis); PREDIABETIC STATE (physiopathology); PREGNANCY IN DIABETES (physiopathology); PREGNANCY.

Komatsu K

A HISTOPATHOLOGICAL STUDY ON THE ISLETS OF LANGERHANS AND DUCTAL EPITHELIAL METAPLASIA IN ATROPHIC LOBULI OF PANCREAS. Suda K, Komatsu K, Hashimoto K *Acta Pathol Jpn* 26: 561-72, Sep 76 (Eng) DL/77MAR429

Kommerell B

[HEPATITIS-B-S (HBS) ANTIGEN AND ANTI-HBS IN DIABETIC PATIENTS] Thamer G, Hasslacher C, Wahl P, Kommerell B *Dtsch Med Wochenschr* 101: 1692-3, 12 Nov 76 (Ger) DL/77MAR50

Konotey-Ahulu FI

HYPEROSMOLAR NON-KETOTIC DIABETIC COMA IN A JUVENILE. Owusu SK, Anterkyi FS, Shaw-Taylor KE, Konotey-Ahulu FI *Ghana Med J* 14: 241-2, Sep 75 (Eng) DL/77MAR397

Korner F

[DIABETIC RETINOPATHY: DOCUMENTATION, EVALUATION OF ITS COURSE AND POSSIBILITIES OF TREATMENT BY PHOTOCOAGULATION] Korner F *Schweiz Med Wochenschr* 106: 1035-40, 31 Jul 76 (Ger) DL/77MAR341

ADULT; AGED; AUTOMATIC DATA PROCESSING; DIABETIC RETINOPATHY (therapy); ENGLISH ABSTRACT; FEMALE; FUNDUS OCULI; HUMAN; LIGHT COAGULATION; MALE; MIDDLE AGE; PHOTOGRAPHY; RETINAL HEMORRHAGE (prevention & control); VISUAL ACUITY; VITREOUS BODY.

Kovacevic N

PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

Kovalchuk FT

[WAYS OF IMPROVING THE DISPENSARIZATION AND SPECIALIZED TREATMENT OF PATIENTS WITH PULMONARY TUBERCULOSIS AND CONCOMITANT DIABETES MELLITUS] Rudin VP, Chuprina MF, Kovalchuk FT *Vrach Delo* 46-7, Jul 76 (Rus) DL/77MAR385

Kozlov Mla

[DIABETES MELLITUS AND DEAFNESS] Kozlov Mla, Onegova RF, Petrov VS,

Diabetes Literature—Author Index

Sokoloverova IM *Vestn Otorinolaringol* 21-5, Sep-Oct 76 (Rus) DL/77MAR366

ADOLESCENCE; ADULT; AGED; ANIMAL; CHILD; CHILD, PRESCHOOL; DEAFNESS (diagnosis, etiology); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; HUMAN; LABYRINTH (pathology); MIDDLE AGE; RATS.

Kraegen EW

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

Krajevitch A

[MYOCARDIAL INFARCTION IN DIABETICS (AUTHORS TRANSL)] Passa P, Masquet C, Krajevitch A, Brasquer Y, Bouvrain Y *Diabete Metab* 1: 179-83, Sep 75 (Fre) DL/77MAR99

Kramp RC

SUBCUTANEOUS, ISOGENIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

ANIMAL; DIABETES MELLITUS (metabolism, therapy); HYPERGLYCEMIA (therapy); INSULIN (metabolism); ISLANDS OF LANGERHANS (metabolism, transplantation); MALE; MICE; MICE, INBRED C57BL; OBESITY (metabolism); PANCREAS (metabolism, transplantation); STREPTOZOTOCIN; TRANSPLANTATION, ALLOGENEIC.

Krause U

[GLIPIXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Happ J, Beyer J, Ulreich F, Schoffling K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

Krausova H

[SUBMICROSCOPICAL PICTURE OF THE PLACENTA IN DIABETIC MOTHERS (AUTHORS TRANSL)] Krausova H, Zidovsky J *Cesk Gynkol* 41: 564-5, Oct 76 (Cze) DL/77MAR32

ENDOPLASMIC RETICULUM (ultrastructure); FEMALE; HUMAN; MICROSCOPY, ELECTRON; PLACENTA (pathology); PREGNANCY IN DIABETES (pathology); PREGNANCY.

Kreines K

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JJ, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

CASE REPORT; GLUCAGON (diagnostic use); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (metabolism); ISLET CELL TUMOR (metabolism); LEUCINE (diagnostic use); MALE; MIDDLE AGE; PROINSULIN (metabolism); TOLBUTAMIDE (diagnostic use); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Kriuchkov VE

[VOCATIONAL REHABILITATION OF PATIENTS WITH DIABETES MELLITUS WHO HAVE UNDERGONE SURGERY FOR PULMONARY TUBERCULOSIS] Iatsozhinskii IuD, Petranik EI, Molotov VN, Kriuchkov VE *Vrach Delo* 108-11, Jul 76 (Rus) DL/77MAR383

Kromann H

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol (Suppl) (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

Kronborg O

ASSESSMENT OF COMPLETENESS OF VAGOTOMY. Kronborg O *Surg Clin North Am* 56: 1421-34, Dec 76 (Eng) [121] DL/77MAR352

DEOXYGLUCOSE (diagnostic use); DYES (diagnostic use); ELECTRIC STIMULATION; EVALUATION STUDIES; GASTRIC JUICE (secretion); GASTRIC MUCOSA (secretion); GASTROINTESTINAL MOTILITY; HUMAN; HYDROGEN-ION CONCENTRATION (physiology); INSULIN (diagnostic use); PRESSURE; PROGNOSIS; REVIEW; STOMACH ULCER (surgery); STOMACH (innervation); VAGOTOMY.

Krone W

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADRENALECTOMY; ANIMAL; BLOOD SUGAR (metabolism); COLD; DEOXYADENOSINE (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); GUANOSINE TRIPHOSPHATE; HYDROXYCORTICOSTEROIDS (pharmacodynamics); INSULIN (blood); LIVER (drug effects, metabolism); MALE; PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); RATS; STARVATION.

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

PHYSIOLOGICAL SIGNIFICANCE OF GLUCOCORTICIDS AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-53, Dec 76 (Eng) DL/77MAR251

Kuhlmann H

[THERAPY OF DIABETIC GLOMERULOSCLEROSIS (KIMMELSTIEL-WILSON SYNDROME)] Kuhlmann H *Dtsch Med Wochenschr* 101: 1769-72, 26 Nov 76 (Ger) DL/77MAR53

DIABETIC NEPHROPATHIES (complications, diet therapy, drug therapy, therapy); HEMODIALYSIS; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); NEPHROTIC SYNDROME (complications); PERITONEAL DIALYSIS.

Kuku SF

PATHOGENESIS AND CHARACTERIZATION OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. Emmanouel DS, Jaspan JB, Kuku SF, Rubenstein AH, Katz AI, Huen AH J *Clin Invest* 58: 1266-72, Nov 76 (Eng) DL/77MAR177

Kunstyr I

INVESTIGATIONS ON THE FUNCTION OF THE RAT FORESTOMACH. Kunstyr I, Peters K, Gartner K *Lab Anim Sci* 26: 166-70, Apr 76 (Eng) *DL/77MAR519

AMYLASE (metabolism); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); DIETARY CARBOHYDRATES (metabolism); LACTOBACILLUS (isolation & purification); PHILIPPINES (physiology); RATS (metabolism, microbiology, physiology);

Diabetes Literature—Author Index

Landgraf-Leurs MM

STOMACH (metabolism, microbiology, physiology); TIME FACTORS; YEASTS (isolation & purification).

Kuntz B

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

Kurtz D

[HYPEROSMOLAR COMATOSE STATES] Mantz JM, Tempe JD, Jaeger A, Kurtz D *Minerva Med* 67: 3643-60, 14 Nov 76 (Ita) DL/77MAR288

Kurup PA

EFFECT OF INSULIN, TOLBUTAMIDE AND PHENFORMIN ON THE SERUM GLYCOPROTEIN CONCENTRATION IN NORMAL RABBITS. Chempakam B, Kurup PA *Indian J Exp Biol* 14: 117-9, Mar 76 (Eng) DL/77MAR151

METABOLISM OF GLYCOGEN IN THE SCORPION HETEROMETRUS SCABER (THOR.). Vijayalekshmi NR, Kurup PA *Indian J Exp Biol* 14: 124-6, Mar 76 (Eng) DL/77MAR152

Kurz M

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL.) Schimmler W, Schuderer A, Kurz M *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

Kushiro H

[DETERMINATION OF SERUM TRIGLYCERIDES] Fukui I, Soyama K, Takano K, Kushiro H, Masaki K *Jpn J Clin Med* 34 suppl: 1910-24, 1976 (Jpn) DL/77MAR226

Kuwahara MD

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblatt PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

ACETYLGLUCOSAMINIDASE (urine); ACID PHOSPHATASE (urine); ALKALINE PHOSPHATASE (urine); ASPARTATE AMINOTRANSFERASE (urine); DIABETES MELLITUS (drug therapy, physiopathology, urine); DIURESIS; FUCOSIDASE (urine); GALACTOSIDASES (urine); HYDROLASES (urine); INSULIN (therapeutic use); MANNOSIDASES (urine); STREPTOZOTOCIN; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Kwak YS

STUDY OF DRUGS AFFECTING CHOLESTEROL-INDUCED ATHEROSCLEROSIS IN RABBITS. Kwak YS, Lee KT, Kim DN *Adv Exp Med Biol* 67: 149-67, 1976 (Eng) *DL/77MAR547

ANIMAL EXPERIMENTS (analysis); ARTERIOSCLEROSIS (etiology); ASPIRIN (pharmacodynamics); ATHEROSCLEROSIS (etiology, pathology); CHLORIMIPRAMINE; CHLOROQUINE (pharmacodynamics); CHOLESTEROL, DIETARY (adverse effects); HYDROXYUREA (pharmacodynamics); MALE; MERCAPTOPURINE (pharmacodynamics); PHARMACOLOGY; PYRIDINOLCARBAMATE (pharmacodynamics); RABBITS; SODIUM DODECYL SULFATE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Kypson J

EFFECTS OF URIDINE AND INOSINE ON GLUCOSE METABOLISM IN SKELETAL MUSCLE AND ACTIVATED LIPOLYSIS IN ADIPOSE TISSUE. Kypson J, Hait G *J Pharmacol Exp Ther* 199: 565-74, Dec 76 (Eng) DL/77MAR200

ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; DIBUTYRYL CYCLIC AMP (pharmacodynamics); EPINEPHRINE (pharmacodynamics); GLUCOSE (metabolism); GLYCOGEN (metabolism); IN VITRO; INOSINE (pharmacodynamics); INSULIN (pharmacodynamics); LACTATES (biosynthesis); LIPIDS (metabolism); MALE; MUSCLES (drug effects, metabolism); NOREPINEPHRINE (pharmacodynamics); PYRUVATES (biosynthesis); RATS; THEOPHYLLINE (pharmacodynamics); URIDINE (pharmacodynamics).

La Grotta G

[DIABETES, OBESITY AND ADENOCARCINOMA OF CORPUS UTERI] Bumma C, Calciati A, Cacciari P, La Grotta G, Falda M *Minerva Med* 67: 3261-6, 20 Oct 76 (Ita) DL/77MAR281

Labadie P

[PROINSULIN] Labadie P *Rev Prat* 26: 3856-60, 21 Nov 76 (Fre) DL/77MAR333

CHEMISTRY; HUMAN; ISLANDS OF LANGERHANS (metabolism); PROINSULIN (metabolism).

Lachman M

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospichal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

ADULT; DIABETIC ANGIOPATHIES (complications); DIABETIC NEUROPATHIES (complications); ENGLISH ABSTRACT; HUMAN; IMPOTENCE (etiology); MALE; MIDDLE AGE; PENIS (blood supply).

Lacroix A

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, D'Amico P, Pesant P, Matte R *Union Med Can* 105: 1810-4, Dec 76 (Fre) DL/77MAR364

Lacroix M

QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE. Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253

Lacy PE

METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

Lacy WW

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chisnost JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

Lakshminarayan S

TUBERCULOSIS AFTER CORTICOSTEROID THERAPY. Sahn SA, Lakshminarayan S *Br J Dis Chest* 70: 195-205, Jul 76 (Eng) DL/77MAR5

Lal H

ALLEVIATION OF NARCOTIC WITHDRAWAL SYNDROME BY CONDITIONAL STIMULI. Lal H, Miksic S, Drawbaugh R, Numan R, Smith

N Pavlov *J Biol Sci* 11: 251-62, Oct-Dec 76 (Eng) DL/77MAR303

ANIMAL; BENZOTROPINE (pharmacodynamics); CONDITIONING, CLASSICAL (drug effects); DRUG WITHDRAWAL SYMPTOMS (therapy); FEVER (chemically induced); HALOPERIDOL (pharmacodynamics); HOMOVANILLIC ACID (metabolism); HYPERGLYCEMIA (chemically induced); INJECTIONS, INTRAVENOUS; MECAMYLAMINE (pharmacodynamics); MORPHINE ADDICTION (therapy); MORPHINE (administration & dosage, pharmacodynamics); NALOXONE (pharmacodynamics); PHENOXYBENZAMINE (pharmacodynamics); RATS.

Lambert AE

POTASSIUM IONS AND INSULIN RELEASE. Henquin JC, Lambert AE *J Physiol (Paris)* 72: 747-56, Nov 76 (Eng) DL/77MAR266

Lambert H

[CONSUMPTION COAGULOPATHY AND ACIDOSIS IN THE DIABETIC PATIENT (AUTHORS TRANSL.)] Larcen A, Lambert H, Laprevote-Heully MC, Alexandre P *Diabete Metab* 2: 33-40, Mar 76 (Fre) DL/77MAR112

Lambre C

LONG-TERM CULTURES OF PANCREAS FROM CHILDREN WITH INTRACTABLE NEONATAL HYPERINSULINIC HYPOGLYCEMIA: IMMUNOENZYMATIC AND RADIOIMMUNOLOGICAL STUDIES OF INSULIN SECRETION. PP. 363-72. Hollande E, Giron BJ, Lambre C *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 I35 no.2 1975. (Eng) DL/77MAR189*

Lammintausta R

CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lammintausta R, Syvalahti E, Pekkarinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

ALDOSTERONE (urine); BATHS, FINNISH; BLOOD SUGAR (analysis); BODY WATER (analysis); FEMALE; HEART RATE; HORMONES (metabolism); HUMAN; INSULIN (blood); MALE; RENIN (blood); SODIUM (urine); SOMATOTROPIN (blood); SYMPATHETIC NERVOUS SYSTEM (physiology); TEMPERATURE; VANILMANDELIC ACID (urine).

Lander T

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

Landgraf R

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

ADOLESCENCE; ADULT; CHILD; DIABETES MELLITUS, JUVENILE (etiology, familial & genetic); GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HAPLOIDY; HISTOCOMPATIBILITY ANTIGENS; HL-A; HUMAN.

Landgraf-Leurs MM

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs

Lapchenko LN

MM, Lander T, Scholz S, Kuntz B, Albert ED
Lancet 2: 1084-5, 13 Nov 76 (Eng)
DL/77MAR237

Lapchenko LN

[SYNDROME OF PHYSICAL AND GENITAL INFANTILISM IN CHILDREN WITH SEVERE FORMS OF DIABETES MELLITUS] Martynova MI, Lapchenko LN, Luzianina GA *Vopr Okhr Materin Det* 21: 3-7, Aug 76 (Rus)
DL/77MAR377

Laprevote-Heully MC

[CONSUMPTION COAGULOPATHY AND ACIDOSIS IN THE DIABETIC PATIENT (AUTHORS TRANSL)] Larcen A, Lambert H, Laprevote-Heully MC, Alexandre P *Diabete Metab* 2: 33-40, Mar 76 (Fre) DL/77MAR112

Larcen A

[CONSUMPTION COAGULOPATHY AND ACIDOSIS IN THE DIABETIC PATIENT (AUTHORS TRANSL)] Larcen A, Lambert H, Laprevote-Heully MC, Alexandre P *Diabete Metab* 2: 33-40, Mar 76 (Fre) DL/77MAR112

ACIDOSIS, DIABETIC (complications); ADOLESCENCE; BLOOD COAGULATION TESTS; CASE REPORT; DISSEMINATED INTRAVASCULAR COAGULATION (etiology); ENGLISH ABSTRACT; FEMALE; HUMAN; LACTATES (blood); MALE; MIDDLE AGE; RECURRENCE.

Lassen NA

EVIDENCE AGAINST H&K AND K& AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *Inö Betz E, ed. Ionic actions on vascular smooth muscle. Berlin, Springer, 1976. W3 SY732 1976i. (Eng)* DL/77MAR187

Lazarow A

PLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

Lazarus L

ROUTINE USE OF LOW-DOSE INTRAVENOUS INSULIN INFUSION IN SEVERE HYPERGLYCAEMIA. Campbell LV, Lazarus L, Casey JH, Kraegen EW *Med J Aust* 2: 519-22, 2 Oct 76 (Eng) DL/77MAR258

Lazarus NR

AN APPROACH TO A MOLECULAR UNDERSTANDING OF EXOCYTOTIC INSULIN RELEASE. Lazarus NR, Davis B, O'Connor KJ *J Physiol (Paris)* 72: 787-94, Nov 76 (Eng) DL/77MAR209

ANIMAL; CELL MEMBRANE (enzymology); EXOCYTOSIS; FISHES; GLUCOSE (physiology); GLUCOSEPHOSPHATES (physiology); IN VITRO; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects); MICE; PHOSPHOENOLPYRUVATE (physiology); PROTEIN KINASE (physiology); RABBITS; RECEPTORS, DRUG (physiology); TOLBUTAMIDE (pharmacodynamics).

Lebric SJ

A SEMIAUTOMATED MICROMETHOD FOR DEXTRAN IN THE PRESENCE OF GLUCOSE. Weet JF, Cobb CA, Lebric SJ *J Lab Clin Med* 87: 898-902, May 76 (Eng) *DL/77MAR512

Lechin F

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van

Diabetes Literature—Author Index

Der Dijs B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng)
DL/77MAR433

ANIMAL; BLOOD SUGAR (metabolism); DOGS; FEMALE; INJECTIONS, INTRAPERITONEAL; INSULIN (blood, secretion); ISLANDS OF LANGERHANS (drug effects, physiology); MALE; SEROTONIN (pharmacodynamics); STIMULATION, CHEMICAL.

Leclercq-Meyer V

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Malaise WJ *Diabete Metab* 1: 39-44, Mar 75 (Eng)
DL/77MAR83

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL)] Leclercq-Meyer V, Malaise WJ *Diabete Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

ANIMAL; BLOOD SUGAR (metabolism); CATECHOLAMINES (physiology); ELECTROSHOCK; ENGLISH ABSTRACT; EPINEPHRINE (pharmacodynamics); EXERTION; GLUCAGON (secretion); GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); RATS; STRESS (physiopathology); SWIMMING; TIME FACTORS.

Ledet T

GROWTH HORMONE STIMULATING THE GROWTH OF ARTERIAL MEDIAL CELLS IN VITRO. ABSENCE OF EFFECT OF INSULIN. Ledet T *Diabetes* 25: 1011-7, Nov 76 (Eng)
DL/77MAR114

ADULT; ANIMAL; AORTA, THORACIC (cytology, drug effects, growth & development); BLOOD; CULTURE MEDIA; DIABETES MELLITUS (blood); DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (pharmacodynamics); HUMAN; INSULIN (blood, pharmacodynamics); MALE; MITOSIS (drug effects); RABBITS; SOMATOTROPIN (blood, pharmacodynamics); THYMIDINE (metabolism); TISSUE CULTURE.

GROWTH OF RABBIT AORTIC SMOOTH MUSCLE CELLS IN SERUM FROM PATIENTS WITH JUVENILE DIABETES. Ledet T *Acta Pathol Microbiol Scand [A]* 84: 508-16, Nov 76 (Eng) DL/77MAR430

ADULT; ANIMAL; AORTA (cytology); AUTORADIOGRAPHY; BLOOD; CELL DIVISION; CULTURE MEDIA; DIABETES MELLITUS, JUVENILE; FEMALE; HUMAN; MALE; MUSCLE, SMOOTH (cytology); RABBITS; TIME FACTORS; TISSUE CULTURE.

Lee HA

THE ROLE OF INTRAVENOUS NUTRITION IN THE MANAGEMENT OF ACUTE RENAL FAILURE. Lee HA *S Afr Med J* 50: 1703-5, Oct 76 (Eng) DL/77MAR350

GLUCOSE (administration & dosage); HEMODIALYSIS; HUMAN; INSULIN (administration & dosage); KIDNEY FAILURE, ACUTE (metabolism, therapy); KIDNEY FAILURE, CHRONIC (therapy); NITROGEN (metabolism); PARENTERAL FEEDING; PERITONEAL DIALYSIS; UREMIA (metabolism).

Lee KT

STUDY OF DRUGS AFFECTING CHOLESTEROL-INDUCED ATHEROSCLEROSIS IN RABBITS. Kwak YS, Lee KT, Kim DN *Adv Exp Med Biol* 67: 149-67, 1976 (Eng) *DL/77MAR547

Leeds AR

GUAR GUM IN DIABETES [LETTER]. Jenkins DJ, Wolever TM, Haworth R, Leeds AR, Hockaday TD *Lancet* 2: 1086-7, 13 Nov 76 (Eng) DL/77MAR238

Lefebvre P

[ACUTE FACIAL MUCORMYCOSIS IN A DIABETIC SUBJECT. SUCCESSFUL TREATMENT WITH AMPHOTERICIN B] Olivier R, Legrand R, Lefebvre P *Diabete Metab* 1: 221-5, Dec 75 (Fre) DL/77MAR104

QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE. Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253

Lefebvre PJ

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

THE BREAKFAST TOLERANCE TEST: A RETURN TO PHYSIOLOGY. Lefebvre PJ, Luyckx AS *Diabete Metab* 2: 15-9, Mar 76 (Eng) DL/77MAR109

AMINO ACIDS (blood); BLOOD SUGAR (analysis); CLINICAL RESEARCH; EVALUATION STUDIES; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); GLUCOSE TOLERANCE TEST (methods); HUMAN; HYDROCORTISONE (blood); INSULIN (blood); MALE; SOMATOTROPIN (blood).

Legrand R

[ACUTE FACIAL MUCORMYCOSIS IN A DIABETIC SUBJECT. SUCCESSFUL TREATMENT WITH AMPHOTERICIN B] Olivier R, Legrand R, Lefebvre P *Diabete Metab* 1: 221-5, Dec 75 (Fre) DL/77MAR104

Legras B

EVALUATION IN CHILDREN OF THE CLINICAL, BIOLOGICAL AND ELECTROENCEPHALOGRAPHIC SIDE EFFECTS OF L-ASPARAGINASE] Olive D, Cartault F, Legras B, Neimann N *Pediatr* 31: 259-78, Apr 76 (Fre) DL/77MAR307

Legros F

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPIC CELLS OF THE HUMAN HYPOPHYSIS] Legros F, Massant B, Uytendhoeuf P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

AUTOPSY; CORTICOTROPIN (metabolism); ENGLISH ABSTRACT; HUMAN; INSULIN (immunology, metabolism); MEMBRANE PROTEINS (metabolism); PITUITARY GLAND (metabolism); PITUITARY GLAND, ANTERIOR (cytology, metabolism); RECEPTORS, INSULIN (metabolism); SOMATOTROPIN (metabolism).

Leif J

ORNITHINE DECARBOXYLASE IN RAT SMALL INTESTINE: STIMULATION WITH FOOD OR INSULIN. Maudsley DV, Leif J, Kobayashi Y *Am J Physiol* 231: 1557-61, Nov 76 (Eng) DL/77MAR452

Leithner C

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Sinsinger H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R *Wien Med Wochenschr* 125: 611-4, 17 Oct 75 (Ger) *DL/77MAR536

ADOLESCENCE; ADULT; BLOOD SUGAR (analysis); CHILD; CHOLESTEROL (blood); FEMALE; HUMAN; IMMUNOSUPPRESSIVE

Diabetes Literature—Author Index

Lillehei RC

AGENTS (pharmacodynamics); KIDNEY (transplantation); MALE; MIDDLE AGE; STIMULATION, CHEMICAL; TRANSPLANTATION, HOMOLOGOUS (transplantation); TRIGLYCERIDES (blood).

Lemmonier D

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemmonier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabetes Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

ADIPOSE TISSUE (cytology, metabolism); ANIMAL; BLOOD SUGAR; BODY WEIGHT; CELL COUNT; DIAPHRAGM; DIETARY FATS; FASTING; FEMALE; GLUCOSE (metabolism, pharmacodynamics); INSULIN (blood, pharmacodynamics); LIPIDS (metabolism); LIPOPROTEIN LIPASE (analysis); LIVER (metabolism); MALE; MICE; MUSCLES (metabolism); MYOCARDIUM (enzymology); OBESITY (metabolism); ORGAN WEIGHT; SEX FACTORS.

Lender M

CHARACTERISTICS OF HOSPITALIZATIONS AND DEATH CASES OF DIABETIC PATIENTS IN A GENERAL HOSPITAL. Lender M, Mancel J *Gerontology* 23: 23-30, 1977 (Eng) DL/77MAR135

ADOLESCENCE; ADULT; AGE FACTORS; AGED; CHILD; DIABETES MELLITUS (mortality, occurrence); FEMALE; HOSPITALIZATION; HUMAN; ISRAEL; MALE; MIDDLE AGE; SEX FACTORS.

Lenicque PM

[CONTROL OF THE REGENERATION OF SMALL PIECES OF THE PLANARIAN DUGESIA TIGRINA BY CYCLIC AMP AND GMP NUCLEOTIDES] Lenicque PM *C R Acad Sci [D] (Paris)* 283: 1317-9, 8 NOV 76 (Fre) DL/77MAR35

ANIMAL; DEPRESSION, CHEMICAL; DIBUTYRYL CYCLIC AMP (antagonists & inhibitors, pharmacodynamics); ENGLISH ABSTRACT; GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (analogs & derivatives, pharmacodynamics); IMIDAZOLES (pharmacodynamics); INSULIN (pharmacodynamics); PLANARIANS (physiology); REGENERATION (drug effects); TURBELLARIA (physiology).

Lenti G

[CLINICAL SIGNIFICANCE OF THE TESTS USED IN THE DIAGNOSIS OF PANCREATIC DISEASES] Lenti G, Emanuelli G *Minerva Med* 67: 3661-70, 14 Nov 76 (Ita) DL/77MAR289

AMYLASE (blood, urine); CHOLECYSTOKININ (diagnostic use); ENGLISH ABSTRACT; ENZYME TESTS; HUMAN; INSULIN (blood); PANCREAS (secretion); PANCREATIC DISEASES (diagnosis); PANCREATIC JUICE (secretion); PANCREATIC NEOPLASMS (diagnosis); PANCREATITIS (diagnosis); SECRETIN (diagnostic use).

Leo P

[THERAPEUTIC ACTION OF GLUCAGON ON PATHOLOGICAL STATES OF THE MYOCARDIUM, ESPECIALLY ON SPECIFIC CONDUCTION TISSUE DISORDERS] Sanna S, Leo P, Netter R *Boll Soc Ital Cardiol* 20: 1233-49, 1975 (Ita) DL/77MAR2

Leonard RJ

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

Leopold IH

LEUCOCYTE-MIGRATION INHIBITION INDUCED BY UVEORETINAL ANTIGEN IN PATIENTS WITH DIABETIC RETINOPATHY. Aviner Z, Henley WL, Okas S, Leopold IH *Diabetes* 25: 1106-9, Dec 76 (Eng) DL/77MAR125

Leopold NA

ABNORMAL GLUCOSE TOLERANCE AND ARGININE TOLERANCE TESTS IN HUNTINGTONS DISEASE. Podolsky S, Leopold NA *Gerontology* 23: 55-63, 1977 (Eng) DL/77MAR136

Lernmark A

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Sehlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

PREPARATION AND CHARACTERIZATION OF PLASMA MEMBRANE-ENRICHED FRACTIONS FROM RAT PANCREATIC ISLETS. Lernmark A, Nathans A, Steiner DF *J Cell Biol* 71: 606-23, Nov 76 (Eng) DL/77MAR168

ADENYL CYCLASE (metabolism); CELL FRACTIONATION (methods); CELL MEMBRANE (analysis, enzymology, ultrastructure); CENTRIFUGATION, DENSITY GRADIENT; ELECTROPHORESIS, POLYACRYLAMIDE GEL; FUCOSE; ISLANDS OF LANGERHANS (ultrastructure); PLANT AGGLUTININS; RATS; SUBCELLULAR FRACTIONS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); URIDINE.

STUDIES ON THE FUNCTION OF PANCREATIC ISLET CELL MEMBRANES. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *J Physiol (Paris)* 72: 729-46, Nov 76 (Eng) DL/77MAR205

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *Pflugers Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

Leshchinskii LA

[PRECLINICAL DIAGNOSIS OF DIABETIC NEPHROPATHIES WITH THE AID OF RADIOIDENTIFICATION METHODS] Leshchinskii LA, Losaberidze BB, Pimenov LT *Ter Arkh* 48: 73-9, 1976 (Rus) DL/77MAR356

ADULT; DIABETIC NEPHROPATHIES (diagnosis); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE; PYELONEPHRITIS (diagnosis); RADIOISOTOPE DILUTION TECHNIC; RADIOISOTOPE RENOGRAPHY.

Lesniak MA

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

Levin M

EPIDEMIOLOGY OF DISEASES IN ADULT MALES WITH LEUKEMIA. Gibson R, Graham S, Lilienfeld A, Schuman L, Levin M, Swanson M *J Natl Cancer Inst* 56: 891-8, May 76 (Eng) DL/77MAR216

Levy J

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaissé-Lagae F, Malaissé WJ *Diabetes Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

Lewander R

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Collste H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

Liebhart M

HISTOENZYMATIC EXAMINATION OF TROPHOBLAST FROM EARLY PREGNANCY COMPLICATED BY DIABETES MELLITUS. Liebhart M, Janczewska E, Klosinska-Kita E *Acta Med Pol* 17: 175-82, 1976 (Eng) DL/77MAR436

ADENOSINE TRIPHOSPHATASE (metabolism); ADULT; FEMALE; HISTOCYTOCHEMISTRY; HUMAN; OXIDOREDUCTASES (metabolism); PEROXIDASES (metabolism); PHOSPHATASES (metabolism); PREGNANCY IN DIABETES (enzymology, metabolism); PREGNANCY; TROPHOBLAST (enzymology).

Lien EL

A NOVEL CYCLIC UNDERCAPEPTIDE, WY-40, 770, WITH PROLONGED GROWTH HORMONE RELEASE INHIBITING ACTIVITY. Sarantakis D, Teichman J, Lien EL, Fenichel RL *Biochem Biophys Res Commun* 73: 336-42, 22 Nov 76 (Eng) DL/77MAR477

Liggins GC

ADRENOCORTICAL-RELATED MATURATIONAL EVENTS IN THE FETUS. Liggins GC *Am J Obstet Gynecol* 126: 931-41, 1 Dec 76 (Eng) [68] DL/77MAR445

ADRENAL CORTX HORMONES (pharmacodynamics); ADRENAL GLANDS (drug effects, embryology); ANIMAL; BRAIN (drug effects, embryology); CHICK EMBRYO; CORTICOTROPIN (pharmacodynamics); FEMALE; FETUS (drug effects); HUMAN; INTESTINE, SMALL (drug effects, embryology); ISLANDS OF LANGERHANS (drug effects, embryology); LACTATION (drug effects); LIVER (drug effects, embryology); LUNG (drug effects, embryology); MICE; PLACENTA (drug effects, embryology); PREGNANCY; RABBITS; RATS; REVIEW; SHEEP; THYROXINE (metabolism).

Lignon F

NON-SATURABLE-CO-OPERATIVE BINDING OF TOLBUTAMIDE TO ISOLATED ISLETS OF LANGERHANS [PROCEEDINGS]. Alric R, Lignon F, Loubatieres AL, Manteghetti M, Puech R *Br J Pharmacol* 58: 450p, Nov 76 (Eng) DL/77MAR12

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS: CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D] (Paris)* 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

Lilienfeld A

EPIDEMIOLOGY OF DISEASES IN ADULT MALES WITH LEUKEMIA. Gibson R, Graham S, Lilienfeld A, Schuman L, Levin M, Swanson M *J Natl Cancer Inst* 56: 891-8, May 76 (Eng) DL/77MAR216

Liljenquist JE

THE ROLE OF INSULIN AND GLUCAGON IN THE REGULATION OF BASAL GLUCOSE PRODUCTION IN THE POSTABSORPTIVE DOG. Cherrington AD, Chasson JL, Liljenquist JE, Jennings AS, Keller U, Lacy WW *J Clin Invest* 58: 1407-18, Dec 76 (Eng) DL/77MAR178

Lillehei RC

TRANSPLANTATION OF THE PANCREAS. Lillehei RC, Ruix JO, Aquino C, Goetz F *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 303-20, 1976 (Eng) DL/77MAR419

Limlomwongse L

ADULT; ANIMAL; DIABETES MELLITUS, JUVENILE (complications, therapy); DOGS; FEMALE; GRAFT REJECTION; HUMAN; IMMUNOSUPPRESSION; ISLANDS OF LANGERHANS (transplantation); KIDNEY FAILURE, CHRONIC (complications); KIDNEY FAILURE, CHRONIC (surgery); KIDNEY (transplantation); MALE; ORGAN PRESERVATION; PANCREAS (physiology, transplantation); TRANSPLANTATION, ALLOGENEIC.

Limlomwongse L

MECHANISM OF INHIBITION OF GASTRIC ACID SECRETION BY HYPERTONIC SOLUTIONS AND VASOPRESSIN. Limlomwongse L, Nophakoon J, Thithapandha A *Pfuegers Arch* 366: 159-65, 5 Nov 76 (Eng) DL/77MAR309
ANIMAL; FEMALE; GASTRIC JUICE (secretion); GASTRIC MUCOSA (blood supply, drug effects, secretion); GLUCOSE SOLUTION, HYPERTONIC (pharmacodynamics); HYPERGLYCEMIA (physiopathology); HYPERTONIC SOLUTIONS, RATS; REGIONAL BLOOD FLOW (drug effects); SALINE SOLUTION, HYPERTONIC (pharmacodynamics); VASOPRESSIN (pharmacodynamics).

Lindberg B

EFFECT OF GLUCAGON ON HEPATIC CIRCULATION IN THE PIG. Lindberg B, Darle N *Arch Surg* 111: 1379-83, Dec 76 (Eng) DL/77MAR469
ANIMAL; BLOOD FLOW VELOCITY; BLOOD PRESSURE (drug effects); ELECTROMAGNETICS; FEMALE; GLUCAGON (pharmacodynamics); HEPATIC ARTERY (physiology); LIVER CIRCULATION (drug effects); MALE; SWINE.

Lindblad BS

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

Lindsay R

CHANGES IN PLASMA AND URINE MAGNESIUM FOLLOWING SUBCUTANEOUS INSULIN. Lindsay R *Curr Med Res Opin* 4: 296-302, 1976 (Eng) DL/77MAR45
HUMAN; INSULIN (metabolism, pharmacodynamics); KIDNEY (metabolism); MAGNESIUM (blood, metabolism, urine); POTASSIUM (blood); SODIUM (blood).

Linton SP

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Linton SP, Scott PH, Kendall MJ *Br Med J* 2: 877-8, 9 Oct 76 (Eng) DL/77MAR16
ADRENERGIC BETA RECEPTOR BLOCKADERS (adverse effects); DRUG SYNERGISM; HUMAN; HYPOGLYCEMIA (chemically induced); INSULIN (pharmacodynamics).

Little HL

COMPLICATIONS OF ARGON LASER RETINAL PHOTOCOAGULATION: A FIVE-YEAR STUDY. Little HL *Int Ophthalmol Clin* 16: 145-59, Winter 76 (Eng) DL/77MAR158
ARGON; CORNEA (injuries); DIABETIC RETINOPATHY (surgery); EYE DISEASES (etiology); HUMAN; LASER COAGULATION (adverse effects, methods); LENS, CRYSTALLINE (injuries); OPTIC NEURITIS (etiology); RETINAL DISEASES (etiology, surgery); RETINAL HEMORRHAGE (etiology, prevention & control).

ARGON LASER PHOTOCOAGULATION OF PROLIFERATIVE DIABETIC RETINOPATHY. Little HL *Int Ophthalmol Clin* 16: 79-103, Winter 76 (Eng) DL/77MAR161

ARGON; DIABETIC RETINOPATHY (surgery); FLUORESCENCE ANGIOGRAPHY; FOLLOW-UP STUDIES; HUMAN; LASER COAGULATION (instrumentation, methods); OPTIC DISK (blood supply, surgery); POSTOPERATIVE COMPLICATIONS (poisoning); PROGNOSIS; RETINAL VESSELS (surgery); VISUAL ACUTY.

TECHNIQUES OF ARGON LASER PHOTOCOAGULATION OF DIABETIC DISK NEW VESSELS. Little HL, Zweng HC, Jack RL, Vassiliadis A *Am J Ophthalmol* 82: 675-83, Nov 76 (Eng) DL/77MAR447

ADOLESCENCE; ADULT; AGED; ARGON; COMPARATIVE STUDY; DIABETIC RETINOPATHY (radiography, surgery); FEMALE; FUNDUS FLUORESCENCE PHOTOGRAPHY; HUMAN; LASER COAGULATION (adverse effects, methods); LIGHT COAGULATION (methods); MALE; MIDDLE AGE; OPHTHALMOSCOPY; OPTIC DISK (blood supply, surgery); RECURRENCE; RETINAL HEMORRHAGE (etiology); RETINAL VESSELS (surgery); VISUAL ACUTY.

Lobel H

POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY. Machtey I, Syrkis I, Nissimov MR, Lobel H *J Am Geriatr Soc* 24: 534-7, Dec 76 (Eng) DL/77MAR185

Loeb H

[COMPARISON OF VARIOUS SEMI-QUANTITATIVE TESTS FOR DETERMINATION OF URINARY GLUCOSE IN DIABETICS (AUTHORS TRANSL)] Dorchy H, Loeb H *Diabete Metab* 1: 87-9, Jun 75 (Fre) DL/77MAR93

EFFECT OF EXERCISE ON GLUCOSE UPTAKE IN DIABETIC ADOLESCENTS. Dorchy H, Ego F, Baran D, Loeb H *Acta Paediatr Belg* 29: 83-5, Apr-Jun 76 (Eng) DL/77MAR427

Lofstrand T

THE VALUE OF AMNIOTIC FLUID LECITHIN/SPHINGOMYELIN DETERMINATION IN PREDICTION OF HYALINE MEMBRANE DISEASE. Lofstrand T, Fex G *Acta Obstet Gynecol Scand* 55: 419-27, 1976 (Eng) DL/77MAR425

AMNIOTIC FLUID (analysis); CREATININE (metabolism); DIABETES MELLITUS (metabolism); FEMALE; FETAL DEATH; HUMAN; HYALINE MEMBRANE DISEASE (diagnosis); IMMUNIZATION; INFANT, NEWBORN; ISOANTIGENS; MALE; PHOSPHATIDYLCHOLINES (analysis); PREGNANCY IN DIABETES (metabolism); PREGNANCY COMPLICATIONS (in pregnancy); PREGNANCY TOXEMIAS (metabolism); PREGNANCY, MULTIPLE; PRENATAL DIAGNOSIS; SPHINGOMYELINS (analysis); TIME FACTORS; TWINS.

Lohmann R

[PERSONALITY AND SOCIAL BEHAVIOR OF ADULT DIABETICS] Lohmann R, Meuter F, Petrides P, Gruncklee D *Med Welt* 27: 1997-2002, 15 Oct 76 (Ger) DL/77MAR250
ADULT; ATTITUDE TO HEALTH; DIABETES MELLITUS; HUMAN; MALE; MIDDLE AGE; PERSONALITY ASSESSMENT; PERSONALITY INVENTORY; PERSONALITY; SOCIAL BEHAVIOR.

Long K

SOMATOSTATIN INHIBITION OF GLUCAGON-STIMULATED ADENOSINE 3-5-MONOPHOSPHATE ACCUMULATION IN ISOLATED HEPATOCYTES. Oliver JR, Long K, Wagle SR, Allen DO *Proc Soc Exp Biol Med* 153: 367-9, Nov 76 (Eng) DL/77MAR327

Lorenz D

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

[SURGICAL PROBLEMS IN THE TREATMENT OF DIABETICS. PRESENT STATE AND FUTURE PROSPECTS (AUTHORS TRANSL)] Redding R, Lorenz D *Ann Chir* 30: 811-6, Oct 76 (Fre) DL/77MAR463

Lorenz MD

LABORATORY DIAGNOSIS OF ENDOCRINOLOGICAL DISEASE. Lorenz MD, Cornelius LM *Vet Clin North Am* 6: 687-722, Nov 76 (Eng) [40] DL/77MAR368
ADRENAL GLAND DISEASES (veterinary); ANIMAL; BLOOD UREA NITROGEN; CAT DISEASES (diagnosis); CATS; DIABETES INSIPIDUS (veterinary); DIABETES MELLITUS (veterinary); DIABETIC COMA (veterinary); DOG DISEASES (diagnosis); DOGS; ENDOCRINE DISEASES (veterinary); GLYCOGENOSIS (veterinary); HYDROCORTISONE (blood); HYPOGLYCEMIA (veterinary); PARATHYROID DISEASES (veterinary); PITUITARY-ADRENAL FUNCTION TESTS (veterinary); REVIEW; THYROID DISEASES (veterinary); THYROID FUNCTION TESTS (veterinary); THYROTROPIN (blood); THYROXINE BINDING PROTEIN (analysis); THYROXINE (blood); TRIIODOTHYRONINE (blood).

Losaberdiz BB

[PRECLINICAL DIAGNOSIS OF DIABETIC NEPHROPATHIES WITH THE AID OF RADIOINDICATION METHODS] Leshchinskii LA, Losaberdiz BB, Pimenov LT *Ter Arkh* 48: 73-9, 1976 (Rus) DL/77MAR356

Loseva IV

[CARBOHYDRATE METABOLISM IN CHILDREN BORN TO WOMEN WITH DIABETES MELLITUS] Vitorova VG, Savchenko TN, Loseva IV, Vishnevskii FE *Vopr Okhr Materin Det* 21: 9-12, Feb 76 (Rus) DL/77MAR372

Loten EG

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBESE-HYPERGLYCEMIC (OB/OB) MICE. Cuendet GS, Loten EG, Jeanraud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173

Loubatieres A

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D]* (Paris) 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

Loubatieres AL

PHARMACOLOGICAL AGENTS AND ACUTE EXPERIMENTAL HYPERLATEMIA IN THE DOG [PROCEEDINGS]. Loubatieres AL, Ribes G, Valette G *Br J Pharmacol* 58: 429p, Nov 76 (Eng) DL/77MAR11
ACETATES (pharmacodynamics); ANIMAL; DOGS; HYPOGLYCEMIC AGENTS (pharmacodynamics); INSULIN (pharmacodynamics); LACTATES (blood).
NON-SATURABLE-CO-OPERATIVE BINDING OF TOLBUTAMIDE TO ISOLATED ISLETS OF LANGERHANS [PROCEEDINGS]. Alric R, Lignon F, Loubatieres AL, Manteghetti M,

Diabetes Literature—Author Index

Maclaren NK

Puech R *Br J Pharmacol* 58: 450p, Nov 76 (Eng)
DL/77MAR12

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

ADMINISTRATION, ORAL; AMMONIA (blood); ANIMAL; COMPARATIVE STUDY; CONVULSIONS (chemically induced); DOGS; DOSE-RESPONSE RELATIONSHIP, DRUG; ENGLISH ABSTRACT; FEMALE; GLIBENCLAMIDE (pharmacodynamics); GLIPIZIDE (administration & dosage); GLISOXEPIDE (pharmacodynamics); INJECTIONS, INTRAVENOUS; INSULIN (blood); ISLANDS OF LANGERHANS (drug effects, growth & development, secretion); MICE; PURINE-PYRIMIDINE METABOLISM, INBORN ERRORS (metabolism); RATS; TIME FACTORS; TOLBUTAMIDE (pharmacodynamics).

Loubatieres-Mariani MM

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

Ludtke E

[SPORTS IN DIABETIC CHILDREN AND ADOLESCENTS IN THE GERMAN DEMOCRATIC REPUBLIC] Ludtke E, Hauenreiter H, Schukowski H *Arztz Jugendkd* 67: 273-9, Oct 76 (Ger) DL/77MAR438

ADOLESCENCE; CHILD; DIABETES MELLITUS, JUVENILE (rehabilitation); EXERTION; FEMALE; GERMANY, EAST; HUMAN; MALE; PHYSICAL EDUCATION AND TRAINING; SPORTS.

Luft D

[TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL)] Luft D, Schubert WR, Reichenmiller HE *Dtsch Med Wochenschr* 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

ADULT; AGED; BICARBONATES (therapeutic use); BLOOD SUGAR (analysis); DIABETIC COMA (drug therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; HYDROGEN-ION CONCENTRATION (physiology); HYPOKALEMIA (chemically induced); INFUSIONS, PARENTERAL; INSULIN (administration & dosage); MALE; MIDDLE AGE; POTASSIUM (therapeutic use).

Lukaszevska J

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszevska J, Bobilewicz D, Wilk M, Obuchowicz-Fidels B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

ADOLESCENCE; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; HUMAN; HYDROCORTISONE (blood); MALE; SPORT MEDICINE; TIME FACTORS; WEIGHT LIFTING; 17-HYDROXYCORTICOSTEROIDS (urine); 17-KETOSTEROIDS (urine).

Lumb JR

SERUM-FREE CULTIVATION OF THYMUS ORGAN FRAGMENTS. Lumb JR, George YS *Fed Proc* 35: 2555-8, Dec 76 (Eng) DL/77MAR77

ANIMAL; BLOOD; CULTURE MEDIA; HYDROCORTISONE (pharmacodynamics);

INSULIN (pharmacodynamics); LEUKEMIA (etiology); MICE; MICE, INBRED C57BL; THYMUS GLAND (cytology); TISSUE CULTURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Lumholtz IB

[DRUG INFORMATION FOR NURSES. OBESITY; THERAPEUTIC MAIN GROUP: ANOREXIS, APPETITE DEPRESSANTS. 3. COMPLICATIONS OF OBESITY] Lumholtz IB *Sygeplejersken* 76: 11, 13 Oct 76 (Dan) DL/77MAR355

ARTERIOSCLEROSIS (etiology); ARTHRITIS (etiology); ATHEROSCLEROSIS (etiology); DIABETES MELLITUS (etiology); HUMAN; HYPERTENSION (etiology); OBESITY (complications); VARICOSE VEINS (etiology).

Lundback K

NEUOPATHY IN EXPERIMENTAL DIABETES [LETTER]. Jakobsen J, Lundback K *Br Med J* 2: 878-9, 9 Oct 76 (Eng) DL/77MAR17

Lundgren G

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Collste H, Hardstedt C, Lewander R, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

Lundquist I

INTERACTION OF CALCIUM AND GLUCOSE ON GLUCAGON SECRETION. Lundquist I, Fanska R, Grodsky GM *Endocrinology* 99: 1304-12, Nov 76 (Eng) DL/77MAR58

ANIMAL; CALCIUM (pharmacodynamics); DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG INTERACTIONS; EGTA (pharmacodynamics); GLUCAGON (secretion); GLUCOSE (pharmacodynamics); INSULIN (secretion); KINETICS; MALE; PANCREAS (drug effects, secretion); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Lutmer RJ

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutmer RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526

Luyckx A

[THE ROLE OF GLUCAGON IN HYPERGLYCEMIA. A REVIEW (AUTHORS TRANSL)] Luyckx A *Diabete Metab* 1: 201-8, Sep 75 (Fre) [64] DL/77MAR102

ACROMEGALY (complications); ADULT; BURNS (complications); CHILD; CUSHINGS SYNDROME (complications); DIABETES MELLITUS (metabolism, physiopathology); ENGLISH ABSTRACT; GLUCAGON (secretion); GLUCONEOGENESIS; GLUCOSE (metabolism); HUMAN; HYPERGLYCEMIA (metabolism, physiopathology); INFECTION (complications); INSULIN (blood); ISLANDS OF LANGERHANS (secretion); LIVER CIRRHOSIS (metabolism); LIVER (metabolism); MYOCARDIAL INFARCT (metabolism); PANCREATIC DISEASES (complications); PHEOCHROMOCYTOMA (complications); PREDIABETIC STATE (metabolism); REVIEW; SHOCK (complications); SOMATOTROPIN RELEASE INHIBITING HORMONE (physiology).

QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE. Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253

Luyckx AS

INFLUENCE OF METFORMIN ON ARGININE-INDUCED GLUCAGON SECRETION IN HUMAN DIABETES. Carpentier J, Luyckx AS, Lefebvre PJ *Diabete Metab* 1: 23-8, Mar 75 (Eng) DL/77MAR81

THE BREAKFAST TOLERANCE TEST: A RETURN TO PHYSIOLOGY. Lefebvre PJ, Luyckx AS *Diabete Metab* 2: 15-9, Mar 76 (Eng) DL/77MAR109

Luzianina GA

[SYNDROME OF PHYSICAL AND GENTAL INFANTILISM IN CHILDREN WITH SEVERE FORMS OF DIABETES MELLITUS] Martynova MI, Lapchenko LN, Luzianina GA *Vopr Okhr Materin Det* 21: 3-7, Aug 76 (Rus) DL/77MAR377

Lyon B

CHILDHOOD ANTECEDENTS OF ADULT OBESITY. DO CHUBBY INFANTS BECOME OBESE ADULTS? Charney E, Goodman HC, McBride M, Lyon B, Pratt R *N Engl J Med* 295: 6-9, 1 Jul 76 (Eng) *DL/77MAR522

Lyons MM

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Oldewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41

Lyons SA

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMATIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblit PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

Mac Cuish AC

ORGAN-SPECIFIC CELL-MEDIATED AUTOIMMUNITY IN DIABETES MELLITUS. Irvine WJ, Mac Cuish AC, Campbell CJ, Duncan LJ *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 65-76, 1976 (Eng) DL/77MAR421

Machley I

POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY. Machley I, Syrkis I, Nissimov MR, Lobel H *J Am Geriatr Soc* 24: 534-7, Dec 76 (Eng) DL/77MAR185

ARRHYTHMIA (etiology, prevention & control); BLOOD PRESSURE (drug effects); FEMALE; GLUCOSE (therapeutic use); HEART FAILURE, CONGESTIVE (etiology, prevention & control); HUMAN; HYPOTENSION (prevention & control); INSULIN (therapeutic use); MALE; MYOCARDIAL INFARCT (complications, mortality, physiopathology); POTASSIUM CHLORIDE (therapeutic use).

Mackerer CR

ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLHYDANTOIN. Mackerer CR, Saunders RN, Haettinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217

AGE FACTORS; ANIMAL; BLOOD SUGAR (metabolism); DIABETES MELLITUS (chemically induced); DIPHENYLHYDANTOIN (adverse effects); INSULIN (blood); ISLANDS OF LANGERHANS (drug effects); KETONES (metabolism); LIVER (drug effects); MALE; ORGAN WEIGHT (drug effects); PANCREAS (drug effects); RATS; STREPTOZOTOCIN (pharmacodynamics).

Maclaren NK

HOW MUCH INSULIN Maclaren NK, Cornblath M *Am J Dis Child* 130: 1307-8, Dec 76 (Eng) DL/77MAR442

MacLeod PM

CHILD; DIABETES MELLITUS, JUVENILE (drug therapy); GLYCOSURIA (drug therapy); HUMAN; INSULIN (administration & dosage, therapeutic use); KETOSIS, DIABETIC (drug therapy).

MacLeod PM

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

Mackubo H

EFFECTS OF NOREPINEPHRINE AND THYROXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Moriya K, Mackubo H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517

Mahmoud F

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandridona G, Di Campo-Rougerie C, Mahmoud F *Diabetic Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

Majewska K

[SOURCE DOCUMENTS FOR ELECTRONIC DATA PROCESSING IN SELECTED EYE DISEASES] Majewska K, Czechowicz-Janicka K, Janik J, Semeniuk H, Ruszkowski J, Doroszewski J *Klin Oczna* 46: 999-1003, Sep 76 (Pol) DL/77MAR235

AUTOMATIC DATA PROCESSING; DIABETES MELLITUS; ENGLISH ABSTRACT; EYE DISEASES; GLAUCOMA; HUMAN; MEDICAL RECORDS; STRABISMUS.

Makimoto K

EFFECT OF PHLORIZIN ON GLUCOSE TRANSPORT IN THE INNER EAR. Takeda T, Makimoto K, Murata K, Suehiro S, Iwai H *Acta Otolaryngol (Stockh)* 81: 424-8, May-Jun 76 (Eng) *DL/77MAR541

Makman MH

STIMULATION OF GLYCOGENOLYSIS IN RAT CAUDATE NUCLEUS SLICES BY L-ISOPROPYLNOREPINEPHRINE, DIBUTYRYL CYCLIC AMP AND 2-CHLOROADENOSINE. Wilkening D, Makman MH *J Neurochem* 26: 923-8, May 76 (Eng) *DL/77MAR513

Mako ME

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JJ, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

Malaisse WJ

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabetic Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

[PARTICIPATION OF CATECHOLAMINES IN THE INHIBITION OF INSULIN SECRETION AND STIMULATION OF GLUCAGON RELEASE DURING EXERCISE AND STRESS (AUTHORS TRANSL.)] Leclercq-Meyer V, Malaisse WJ *Diabetic Metab* 1: 119-22, Jun 75 (Fre) DL/77MAR90

CALCIUM ANTAGONISTS AND ISLET FUNCTION. VIII. THE EFFECT OF MAGNESIUM. Malaisse WJ, Devis G, Herchelz A, Sener A, Somers G *Diabetic Metab* 2: 1-4, Mar 76 (Eng) DL/77MAR107

ANIMAL; CALCIUM (metabolism); GLUCOSE (metabolism); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); MAGNESIUM (pharmacodynamics); RATS.

Diabetes Literature—Author Index

Malaisse-Lagae F

IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabetic Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87

Malan E

[OUR APPROACH TO THE TREATMENT OF PURE DIABETIC ARTERIOPATHY AND ARTERIOSCLEROTIC ARTERIOPATHY IN DIABETICS] Tomassini N, Marconato R, Bianchi E, Malan E *Minerva Cardioangiol* 24: 253-9, Apr 76 (Ita) DL/77MAR273

Malev VV

[COMPARISON OF JUMPING AND ELECTRODIFFUSION MECHANISMS OF PARTICLE MOVEMENT IN THIN MEMBRANES. I. STATEMENT OF THE PROBLEM. STATIONARY TRANSFER] Aitani SKh, Markin VS, Malev VV *Biofizika* 21: 253-6, Mar-Apr 76 (Rus) *DL/77MAR488

Malone JJ

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JJ, Rosenbloom AL, Grgic A, Weber FT *Am J Dis Child* 130: 1324-7, Dec 76 (Eng) DL/77MAR443

ADOLESCENCE; BLOOD SUGAR (analysis); CHILD; COMPARATIVE STUDY; DIABETES MELLITUS, JUVENILE (drug therapy); GLYCOSURIA; HUMAN; INSULIN (administration & dosage, therapeutic use); KIDNEY (metabolism).

Mangnall Y

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

Manna R

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebutti A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

[BEHAVIOR OF PLASMA/INSULIN, SOMATOTROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebutti A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

Manns JG

QUANTITATIVE ASPECTS OF SECRETION AND HEPATIC REMOVAL OF GLUCAGON IN SHEEP. Brockman RP, Manns JG, Bergman EN *Can J Physiol Pharmacol* 54: 666-70, Oct 76 (Eng) DL/77MAR23

Manteghetti M

NON-SATURABLE-CO-OPERATIVE BINDING OF TOLBUTAMIDE TO ISOLATED ISLETS OF LANGERHANS [PROCEEDINGS]. Alric R, Lignon F, Loubatieres AL, Manteghetti M, Puech R *Br J Pharmacol* 58: 450p, Nov 76 (Eng) DL/77MAR12

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D]* (Paris) 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

Mantz JM

[HYPEROSMOLAR COMATOSE STATES] Mantz JM, Tempe JD, Jaeger A, Kurtz D *Miner-*

va Med 67: 3643-60, 14 Nov 76 (Ita) DL/77MAR288

ADULT; AGED; ALCOHOLIC INTOXICATION (complications); BRAIN DISEASES (complications); DEHYDRATION (complications); DIABETIC COMA (etiology); ELECTROENCEPHALOGRAPHY; ELECTROLYTES (metabolism); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERGLYCEMIC HYPEROSMOLAR NONKETOTIC COMA (etiology, therapy); HYPERNATREMIA (complications); MALE; MIDDLE AGE.

Marbach P

ALPHA ADRENERGIC CONTROL OF GROWTH HORMONE IN ADULT MALE RATS. Ruch W, Jaton AL, Bucher B, Marbach P, Doeppner W *Experientia* 32: 529-31, 15 Apr 76 (Eng) *DL/77MAR501

Marchetti G

MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI ENDOTOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS. Marchetti G, Merlo L, Nosedà V, Brusoni B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527

ANIMAL EXPERIMENTS (analysis); ASPARTATE AMINOTRANSFERASE (blood); BLOOD FLOW VELOCITY; BLOOD SUGAR (metabolism); BLOOD; CARBON DIOXIDE (blood); DOGS; ENDOTOXINS (pharmacodynamics); ESCHERICHIA COLI; FATTY ACIDS, NONESTERIFIED (blood); GUINEA PIGS; HEART RATE (drug effects); HEART (physiology); LACTATES (blood); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism); OXYGEN (blood); PARTIAL PRESSURE; PHILIPPINES (physiology); POTASSIUM (blood); PYRUVATES (blood).

Marco J

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44

Marconato R

[OUR APPROACH TO THE TREATMENT OF PURE DIABETIC ARTERIOPATHY AND ARTERIOSCLEROTIC ARTERIOPATHY IN DIABETICS] Tomassini N, Marconato R, Bianchi E, Malan E *Minerva Cardioangiol* 24: 253-9, Apr 76 (Ita) DL/77MAR273

Marenco G

[USE OF GLUCAGON IN THE TREATMENT OF SEVERE CONTRACTILE INSUFFICIENCY OF THE MYOCARDIUM] Bertolazzi R, Ricciardi S, Marenco G *Minerva Med* 67: 3519-24, 10 Nov 76 (Ita) DL/77MAR286

Markin VS

[COMPARISON OF JUMPING AND ELECTRODIFFUSION MECHANISMS OF PARTICLE MOVEMENT IN THIN MEMBRANES. I. STATEMENT OF THE PROBLEM. STATIONARY TRANSFER] Aitani SKh, Markin VS, Malev VV *Biofizika* 21: 253-6, Mar-Apr 76 (Rus) *DL/77MAR488

Markussen J

SEPARATION OF THE TWO DOUBLE-CHAIN BOVINE INTERMEDIATES OF THE PROINSULIN-INSULIN CONVERSION I. CHEMICAL, IMMUNOCHEMICAL, CIRCULAR DICHROISM, AND BIOLOGICAL CHARACTERIZATION. Markussen J, Heding LG *Int J Pept Protein Res* 8: 597-606, 1976 (Eng) DL/77MAR156

Diabetes Literature—Author Index

McIntyre PA

AMINO ACIDS (analysis); ANIMAL; ANTIGEN-ANTIBODY REACTIONS; BIOLOGICAL ASSAY; CATTLE; CIRCULAR DICHROISM; CRYSTALLIZATION; ELECTROPHORESIS, DISC; INSULIN (analysis, immunology); MOLECULAR CONFORMATION; OXIDATION-REDUCTION; PROINSULIN (analysis, immunology).

Marque G

[CHANGES IN FREE FATTY ACID METABOLISM IN RABBITS SUBJECTED TO PROLONGED INSULIN ADMINISTRATION] Marque G *C R Acad Sci [D] (Paris)* 283: 519-21, 20 Sep 76 (Fre) DL/77MAR39
ANIMAL; DRUG ADMINISTRATION SCHEDULE; ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood, metabolism); GLYCERIN (blood); INSULIN (administration & dosage, pharmacodynamics); MALE; RABBITS; TIME FACTORS.

Martin FI

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBESE HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

Martina V

[SOME METABOLIC EFFECTS OF SALBUTAMOL] Fassio V, Massara F, Camanni F, Martina V *Minerva Med* 67: 3267, 20 Oct 76 (Ita) DL/77MAR282

Martynova MI

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI *Vopr Okhr Materin Det* 21: 61-5, Apr 76 (Rus) DL/77MAR373

[SYNDROME OF PHYSICAL AND GENITAL INFANTILISM IN CHILDREN WITH SEVERE FORMS OF DIABETES MELLITUS] Martynova MI, Lapchenko LN, Luzianina GA *Vopr Okhr Materin Det* 21: 3-7, Aug 76 (Rus) DL/77MAR377
CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (complications); ENGLISH ABSTRACT; HUMAN; INFANTILISM (etiology); SYNDROME.

Masaki K

[DETERMINATION OF SERUM TRIGLYCERIDES] Fukui I, Soyama K, Takano K, Kushihiro H, Masaki K *Jpn J Clin Med* 34 suppl: 1910-24, 1976 (Jpn) DL/77MAR226

Masquet C

[MYOCARDIAL INFARCTION IN DIABETICS (AUTHORS TRANSL)] Passa P, Masquet C, Krajcivitch A, Brasquer Y, Bouvrain Y *Diabete Metab* 1: 179-83, Sep 75 (Fre) DL/77MAR99

Massant B

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPIC CELLS OF THE HUMAN HYPOPHYSIS] Legros F, Massant B, Uytendhoeft P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

Massara F

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

[SOME METABOLIC EFFECTS OF SALBUTAMOL] Fassio V, Massara F, Camanni F, Martina V *Minerva Med* 67: 3267, 20 Oct 76 (Ita) DL/77MAR282

Matas AJ

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1123-8, Dec 76 (Eng) DL/77MAR128

Mathias K

[TRANSVENOUS KIDNEY PUNCTURE. NEW PROCEDURE FOR WITHDRAWAL OF KIDNEY TISSUE] Mathias K, Rohrbach R, Strecker EP, Kauffmann G *Fortschr Med* 94: 1700-4, 21 Oct 76 (Ger) DL/77MAR143
ANIMAL; BIOPSY, NEEDLE (adverse effects); COLLAGE DISEASES (pathology); DIABETES MELLITUS, JUVENILE (pathology); DOGS; ENGLISH ABSTRACT; GLOMERULONEPHRITIS (pathology); HEMATURIA (etiology); KIDNEY DISEASES (pathology); KIDNEY (pathology); NEPHRITIS, INTERSTITIAL (pathology); PROTEINURIA (pathology); RENAL VEINS.

Matricon J

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOODS CELLS. Roussellet A, Guthmann C, Matricon J, Biennue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

Matschinsky FM

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175
ADENOSINE TRIPHOSPHATE (metabolism); ALLOXAN DIABETES (metabolism); ANIMAL; DIABETES MELLITUS (chemically induced, metabolism); GLUCAGON (metabolism); GLUCOSE (metabolism); INSULIN (metabolism); ISLANDS OF LANGERHANS (metabolism); MALE; PERFUSION; RATS; STREPTOZOTOCIN; SUCROSE (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UREA (metabolism).

Matsuda K

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360

Matte R

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, Damico P, Pesant P, Matte R *Union Med Can* 105: 1810-4, Dec 76 (Fre) DL/77MAR364

Maudsley DV

ORNITHINE DECARBOXYLASE IN RAT SMALL INTESTINE: STIMULATION WITH FOOD OR INSULIN. Maudsley DV, Leif J, Kobayashi Y *Am J Physiol* 231: 1557-61, Nov 76 (Eng) DL/77MAR452

ANIMAL; CARBOXY-LYASES (metabolism); CYCLOHEXIMIDE (pharmacodynamics); DACTINOMYCIN (pharmacodynamics); DUODENUM (enzymology); EATING; FEMALE; HISTAMINASE (metabolism); HISTIDINE DECARBOXYLASE (metabolism); ILEUM (enzymology); INSULIN (pharmacodynamics); INTESTINE, LARGE (enzymology); INTESTINE, SMALL (enzymology, metabolism); JEJUNUM (enzymology); METAMIDE (pharmacodynamics); ORNITHINE DECARBOXYLASE (metabolism); PENTAGASTRIN (pharmacodynamics); PUTRESCINE (metabolism); RATS; S-ADENOSYLMETHIONINE DECARBOXYLASE (metabolism); STARVATION; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Mauer SM

TRANSPLANTATION VERSUS DIALYSIS IN HIGH RISK PATIENTS. PP. 702-9. Kjellstrand CM, Mauer SM, Shideman JR, Simmons RL, Buselmeier TJ, Najarian JS *In: Giovanni S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a. (Eng) DL/77MAR192*

Mayer J

EFFECTS OF ALLOXAN INDUCED DIABETES ON THE FEEDING PATTERNS OF RATS. Thomas DW, Scharrer E, Mayer J *Physiol Behav* 17: 345-9, Aug 76 (Eng) DL/77MAR329

Mayor F

LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochem Med* 14: 355-67, Dec 75 (Eng) *DL/77MAR557

Mazzaferri EL

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, Odoriso TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

McBride M

CHILDHOOD ANTECEDENTS OF ADULT OBESITY. DO CHUBBY INFANTS BECOME OBESE ADULTS? Charney E, Goodman HC, McBride M, Lyon B, Pratt R *N Engl J Med* 295: 6-9, 1 Jul 76 (Eng) *DL/77MAR522

McCallum CJ

PANCREATIC ISLET-CELL ANTIBODY AS A MARKER FOR ASYMPTOMATIC AND LATENT DIABETES AND PREDIABETES. Irvine WJ, Gray RS, McCallum CJ *Lancet* 2: 1097-102, 20 Nov 76 (Eng) DL/77MAR240

McEvoy RC

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

McGilveray IJ

GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS OF METHYLATION OF SULFONYLUREA DRUGS. Midha KK, Awang DV, McGilveray IJ *Biomed Mass Spectrom* 3: 100-9, Jun 76 (Eng) DL/77MAR9

McIntosh C

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Wilms B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

McIntyre PA

SURFACE SULPHYDRYL GROUPS AND PHAGOCYTOSIS-ASSOCIATED OXIDATIVE METABOLIC CHANGES IN HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, McIntyre PA *Br J Haematol* 33: 189-204, Jun 76 (Eng) *DL/77MAR479

SURFACE SULPHYDRYL GROUPS AND HEXOSE MONOPHOSPHATE PATHWAY ACTIVITY IN RESTING HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, Chusid MJ, Wolff SM, McIntyre PA *Br J Haematol* 33: 205-11, Jun 76 (Eng) *DL/77MAR480

McKeown BA

McKeown BA

EFFECT OF VASOTOCIN ON PLASMA GH, FREE FATTY ACIDS AND GLUCOSE IN COHO SALMON (ONCORHYNCHUS KISUTCH). McKeown BA, John TM, George JC *Endocrinol Exp (Bratisl)* 10: 45-51, Mar 76 (Eng) *DL/77MAR498

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); FATTY ACIDS, NONESTERIFIED (blood); HEMATOCRIT; SALMON (blood, physiology); SOMATOTROPIN (blood); VASOTOCIN (pharmacodynamics); WATER-ELECTROLYTE BALANCE (drug effects).

McLaughlin S

THE HYDROPHOBIC ADSORPTION OF CHARGED MOLECULES TO BILAYER MEMBRANES: A TEST OF THE APPLICABILITY OF THE STERN EQUATION. McLaughlin S, Harary H *Biochemistry* 15: 1941-8, 4 May 76 (Eng) *DL/77MAR483

ADSORPTION; BINDING SITES; ELECTRIC CONDUCTIVITY; KINETICS; MATHEMATICS; MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; NONACTIN; PHOSPHATIDYL CHOLINE; PHOSPHATIDYL ETHANOLAMINE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

McMaster JH

HUMAN FIBULAR DYNAMICS. PP. 1-6. Weinert CR Jr, McMaster JH, Scranton PE Jr, Ferguson RJ In: Bateman JE, ed. *Foot science*. Philadelphia, Saunders, 1976. WE 880 AS11f 1974. (Eng) *DL/77MAR506

Medalie JH

UNRECOGNIZED MYOCARDIAL INFARCTION: FIVE-YEAR INCIDENCE, MORTALITY, AND RISK FACTORS. Medalie JH, Goldbourt U *Ann Intern Med* 84: 526-31, May 76 (Eng) *DL/77MAR552

ADULT; AFRICA (ethnology); AGED; BLOOD PRESSURE; CHOLESTEROL (blood); DIAGNOSIS, COMPUTER ASSISTED; EUROPE (ethnology); FOLLOW-UP STUDIES; HEART ENLARGEMENT (complications); HUMAN; ISRAEL (instrumentation); MIDDLE AGE; MYOCARDIAL INFARCT (complications, diagnosis, mortality, occurrence); SMOKING; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Mehnert H

[THE QUESTION OF ADVERSE EFFECTS OF CLOFIBRATE. EXPERIENCE IN PATIENTS WITH DIABETES MELLITUS] Haser C, Rahlfs V, Mehnert H *Ther Ggw* 115: 1382-95, Aug 76 (Ger) DL/77MAR357

Meidler M

TOLERANCE AND ACCEPTABLE DAILY INTAKE OF ETHYLENE DICHLORIDE IN THE CHICKEN DIET. Alumot E, Meidler M, Holstein P *Food Cosmet Toxicol* 14: 111-4, Apr 76 (Eng) *DL/77MAR503

Meissner HP

INTRACELLULAR MEMBRANE JUNCTIONS DURING THE EXOCYTOSIS OF INSULIN. Dahl G, Berger W, Meissner HP *J Physiol (Paris)* 72: 703-9, Nov 76 (Eng) DL/77MAR202

ELECTRICAL CHARACTERISTICS OF THE BETA-CELLS IN PANCREATIC ISLETS. Meissner HP *J Physiol (Paris)* 72: 757-67, Nov 76 (Eng) DL/77MAR207

ANIMAL; BIOLOGICAL TRANSPORT; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCOSE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (physiology); MEMBRANE POTENTIALS (drug effects); MICE; OUABAIN (pharmacodynamics); POTASSIUM (pharmacodynamics).

Diabetes Literature—Author Index

Mekhjian HS

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, Odorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL *Gastroenterology* 72: 49-54, Jun 77 (Eng) DL/77MAR133

Melick RA

CORRELATION BETWEEN INSULIN RECEPTOR BINDING IN ISOLATED FAT CELLS AND INSULIN SENSITIVITY IN OBESE HUMAN SUBJECTS. Harrison LC, Martin FI, Melick RA *J Clin Invest* 58: 1435-41, Dec 76 (Eng) DL/77MAR179

Menczel J

CHARACTERISTICS OF HOSPITALIZATIONS AND DEATH CASES OF DIABETIC PATIENTS IN A GENERAL HOSPITAL. Lender M, Menczel J *Gerontology* 23: 23-30, 1977 (Eng) DL/77MAR135

Merali Z

EFFECTS OF SUBACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacew S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

Merkatz I

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

Merlo L

MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI ENDOTOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS. Marchetti G, Merlo L, Noseda V, Brusoni B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527

Metzger RP

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblit PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

Meuli C

BINDING OF INSULIN AND NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY TO ISOLATED PERFUSED RAT HEART MUSCLE. EVIDENCE FOR TWO SEPARATE BINDING SITES. Meuli C, Froesch ER *Arch Biochem Biophys* 177: 31-8, Nov 76 (Eng) DL/77MAR465

ANIMAL; BINDING SITES; BINDING, COMPETITIVE; IN VITRO; INSULIN (pharmacodynamics); KINETICS; MALE; MYOCARDIUM (metabolism); NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY (metabolism); PERFUSION; RATS; RECEPTORS, INSULIN (metabolism).

Meuter F

[PERSONALITY AND SOCIAL BEHAVIOR OF ADULT DIABETICS] Lohmann R, Meuter F, Petrides P, Gruncklee D *Med Welt* 27: 1997-2002, 15 Oct 76 (Ger) DL/77MAR250

Meyer W

[HEMODYNAMICS, METABOLISM AND FUNCTION OF THE PERFUSED PANCREAS UNDER NORMAL TEMPERATURE] Meyer W, Petersen H *Z Exp Chir* 9: 113-9, 1976 (Ger) DL/77MAR391

ANIMAL; DOGS; DUODENUM (metabolism, physiology); ENGLISH ABSTRACT;

HEMODYNAMICS; INSULIN (metabolism); OXYGEN CONSUMPTION; PANCREAS (metabolism, physiology); PERFUSION; TEMPERATURE.

Mialhe P

PITUITARY AND ADRENAL CONTROL OF PANCREATIC ENDOCRINE FUNCTION IN THE DUCK. Foltzer C, Leclercq-Meyer V, Mialhe P *Diabetes Metab* 1: 39-44, Mar 75 (Eng) DL/77MAR83

Michal V

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospichal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

Micheli H

[HYPERLIPIDEMIA: PRACTICAL ATTITUDES] Micheli H *Schweiz Med Wochenschr* 106: 929-36, 3 Jul 76 (Fre) DL/77MAR339

CHOLESTEROL (blood); CHOLESTYRAMINE (therapeutic use); CLOFIBRATE (therapeutic use); DIABETES MELLITUS (complications); ENERGY METABOLISM; ENGLISH ABSTRACT; FOOD HABITS; HUMAN; HYPERLIPIDEMIA (diet therapy, therapy); LIPOPROTEINS, VLDL (biosynthesis); NICOTINIC ACIDS (therapeutic use); TRIGLYCERIDES (blood).

Michels RG

VITREORETINAL AND ANTERIOR SEGMENT SURGERY THROUGH THE PARS PLANA: PART I. Michels RG *Ann Ophthalmol* 8: 1353-81, Nov 76 (Eng) DL/77MAR461

CILIARY BODY (surgery); DIABETIC RETINOPATHY (surgery); ELECTROCOAGULATION (instrumentation); EYE FOREIGN BODIES (surgery); EYE INJURIES (surgery); HUMAN; IRRIGATION (instrumentation); LENS, CRYSTALLINE (surgery); METHODS; MICROSURGERY (instrumentation); RETINA (surgery); SCLERA (surgery); SCLERAL BUCKLING (methods); STEREOTAXIC TECHNIQS (instrumentation); SUCTION (instrumentation); SURGICAL EQUIPMENT; SURGICAL INSTRUMENTS; ULTRASONIC THERAPY (instrumentation); VITREOUS BODY (surgery).

Midha KK

GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS OF METHYLATION OF SULFONYLUREA DRUGS. Midha KK, Awang DV, McGilveray U *Biomed Mass Spectrom* 3: 100-9, Jun 76 (Eng) DL/77MAR9

CHEMISTRY; CHLOROPROPANIDE (analogs & derivatives, analysis); CHROMATOGRAPHY, GAS; METHODS; METHYLATION; SPECTRUM ANALYSIS, MASS; TOLBUTAMIDE (analogs & derivatives, analysis).

Mielczarek H

[COMPARISON OF THE SIZE OF HEPATOCYTE NUCLEI IN DIABETES AND IN SELECTED DIGESTIVE TRACT DISEASES] Danilewicz M, Danilewiczowa M, Mielczarek H, Pruszczyński M, Torzecki Z *Pol Tyg Lek* 31: 1961-2, 15 Nov 76 (Pol) DL/77MAR313

Mier PD

ABSENCE OF THE SORBITOL PATHWAY IN EPIDERMIS. Roelfzema H, van den Hurk JJ, Mier PD *Br J Dermatol* 94: 577-8, May 76 (Eng) *DL/77MAR478

Mierzejewski K

STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN

Diabetes Literature—Author Index

Muggeo M

AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476
CELL DIVISION (drug effects); CELL LINE; CULTURE MEDIA; DNA REPLICATION (drug effects); GROWTH SUBSTANCES (pharmacodynamics); INSULIN (pharmacodynamics); KINETICS; SKIN; VITAMIN B 12 (pharmacodynamics).

Miglio C

[VALUE OF THE METHOD OF CERASI AND LUFT IN CHECKING THE PROGRESSION OF METABOLIC DISORDERS IN CHILDHOOD] Barato S, Cerutti F, Miglio C, Carta Q *Minerva Med* 67: 3243-8, 20 Oct 76 (Ita) DL/77MAR278

[COMPARATIVE EVALUATION OF THE RESULTS OBTAINED WITH THE CERASI AND LUFT METHOD AND THE OGGT IN CHILDREN] Barato S, Cerutti F, Miglio C, Altare F *Minerva Med* 67: 3249-54, 20 Oct 76 (Ita) DL/77MAR279

Mikhailova VS

[RELATIONSHIP BETWEEN THE COURSE OF DIABETES MELLITUS IN CHILDREN AND INDICES OF COMPLEMENT AND INSULIN (ANTIBODY TITERS)] Dreval AV, Zhukovskii MA, Shcherbacheva LN, Mikhailova VS *Vopr Okhr Materin Det* 21: 12-7, Feb 76 (Rus) DL/77MAR370

Miksic S

ALLEVIATION OF NARCOTIC WITHDRAWAL SYNDROME BY CONDITIONAL STIMULI. Lal H, Miksic S, Drawbaugh R, Numan R, Smith N *Pavlov J Biol Sci* 11: 251-62, Oct-Dec 76 (Eng) DL/77MAR303

Miller A

TREATMENT OF CARDIAC SENSITIVITY TO HYPERKALEMIA WITH ALDOSTERONE, RENIN, OR INSULIN. Hiatt N, Chapman LW, Davidson MB, Katayanagi T, Miller A *Proc Soc Exp Biol Med* 153: 70-4, Oct 76 (Eng) DL/77MAR323

Millner SN

CORRELATION BETWEEN MORNING URINE ESTRIOL CONCENTRATION AND 24-HOUR ESTRIOL EXCRETION. Biezenski JJ, Facog, Millner SN *Obstet Gynecol* 48: 678-81, Dec 76 (Eng) DL/77MAR297

Milstrey HR

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarcz H, McIntosh C, Milstrey HR, Wilms B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

Mincou I

[EPIDEMIOLOGICAL STUDIES CONCERNING DIABETES MELLITUS IN ROMANIA. PREMISES, METHODOLOGY AND RESULTS] Mincou I, Dumitrescu C, Stanesco J *Med Interne* 14: 241-51, Oct-Dec 76 (Fre) DL/77MAR334
ADOLESCENCE; ADULT; AGE FACTORS; AGED; CHILD; DIABETES MELLITUS (occurrence); EPIDEMIOLOGIC METHODS; FEMALE; HUMAN; MALE; MASS SCREENING; MIDDLE AGE; ROMANIA; RURAL POPULATION; SEX FACTORS; URBAN POPULATION.

Mioli V

[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND

LIPID METABOLISM IN CHRONIC UREMIA]

Mioli V, Pacchiarotti P, Ragaiole M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523
ADULT; CHRONIC DISEASE; DIETARY PROTEINS; ENGLISH ABSTRACT; GLUCOSE (metabolism); HEMODIALYSIS (diagnosis); HUMAN; LIPIDS (metabolism); MIDDLE AGE; UREMIA (diet therapy, metabolism, therapy).

Mirouze J

[DIABETES MELLITUS UNDER 30 YEARS OF AGE. RESULTS OF 18 YEARS EXPERIENCE WITH ORAL TREATMENT (AUTHORS TRANSL)] Mirouze J, Cartry E *Diabete Metab* 1: 113-8, Jun 75 (Fre) DL/77MAR89
ADMINISTRATION, ORAL; ADOLESCENCE; ADULT; BIGUANIDES (therapeutic use); CHILD; CHILD, PRESCHOOL; COMPARATIVE STUDY; DIABETES MELLITUS (complications, drug therapy); DIABETES MELLITUS, JUVENILE (drug therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage); INFANT; INFANT, NEWBORN; INSULIN (therapeutic use); MALE; OBESITY IN DIABETES; PREGNANCY; SULFONYLUREA COMPOUNDS (therapeutic use); TIME FACTORS.

Missiura NV

[LIPID AND GLUCOSE ABSORPTION AFTER VAGOTOMY WITH CONSERVATIVE RESECTION OF THE STOMACH] Postolov PM, Fetusev VA, Missiura NV *Vestn Khir* 114: 29-31, Jan 75 (Rus) *DL/77MAR533

M.Gaillard J

INSULIN COMA THERAPY: DECREASE OF PLASMA TRYPTOPHAN IN MAN. Baumann P, M.Gaillard J *J Neural Transm* 39: 309-13, 1976 (Eng) DL/77MAR198

Molinatti GM

[EFFECTS OF SOMATOSTATIN ON PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

Molotov VN

[VOCATIONAL REHABILITATION OF PATIENTS WITH DIABETES MELLITUS WHO HAVE UNDERGONE SURGERY FOR PULMONARY TUBERCULOSIS] Iatsozhinskii Iu D, Petranuk EI, Molotov VN, Kriuchkov VE *Vrach Delo* 108-11, Jul 76 (Rus) DL/77MAR383

Monn E

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (urine); ADOLESCENCE; CHILD; CHILD, PRESCHOOL; DIABETES INSIPIDUS (diagnosis, urine); DIABETIC NEPHROPATHIES (diagnosis, urine); HUMAN; INFANT; KIDNEY FAILURE, CHRONIC (diagnosis, urine); MALE; PARATHYROID HORMONE (diagnostic use); VASOPRESSIN (diagnostic use).

Morishita S

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

Morita S

MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M *Diabetes* 25: 1018-25, Nov 76 (Eng) DL/77MAR115

ANIMAL; DOGS; GASTRIC MUCOSA (metabolism); GASTROINTESTINAL SYSTEM (metabolism); GLUCAGON (metabolism); PANCREAS (physiology); PANCREATICTOMY; RADIOIMMUNOASSAY; RECEPTORS, HORMONE; STOMACH (metabolism).

[DETERMINATION OF SERUM GLUCAGON]

Morita S, Baba S *Jpn J Clin Med* 34 suppl: 2290-8, 1976 (Jpn) [68] DL/77MAR229
DIABETES MELLITUS (blood); GLUCAGON (blood, secretion); HUMAN; PANCREATIC NEOPLASMS (secretion); REVIEW.

Moriya K

EFFECTS OF NOREPINEPHRINE AND THYROXINE ON THE TURNOVER RATE OF PLASMA FREE FATTY ACIDS. Moriya K, Maekubo H, Honma K, Itoh S *Jpn J Physiol* 25: 733-46, 1975 (Eng) *DL/77MAR517
ANIMAL EXPERIMENTS (analysis); BODY TEMPERATURE REGULATION (drug effects); FATTY ACIDS, NONESTERIFIED (blood); MALE; NOREPINEPHRINE (pharmacodynamics); RATS; THYROIDECTOMY; THYROXINE (pharmacodynamics).

Morl M

[DRUG-INDUCED ICTERUS] Morl M *Fortschr Med* 94: 1934-6, 18 Nov 76 (Ger) DL/77MAR144

ANTICOAGULANTS (adverse effects); ANTICONVULSANTS (adverse effects); CATHARTICS (adverse effects); CONTRACEPTIVES, ORAL (adverse effects); DRUG THERAPY (adverse effects); ENGLISH ABSTRACT; FEMALE; HALOTHANE (adverse effects); HUMAN; HYPOGLYCEMIC AGENTS (adverse effects); JAUNDICE (chemically induced); MALE; TRANQUILIZING AGENTS (adverse effects).

Morris PJ

PASSIVE ENHANCEMENT OF ISOLATED PANCREATIC ISLET ALLOGRAFTS. Finch DRA, Morris PJ *Transplantation* 22: 508-12, Nov 76 (Eng) DL/77MAR362

Mosora F

QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE. Mosora F, Lefebvre P, Firnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253
ADULT; BLOOD SUGAR (metabolism); CARBON DIOXIDE; CARBON ISOTOPES; CORN; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; INSULIN (blood); MALE; OXIDATION-REDUCTION.

Moule ML

STRUCTURE AND FUNCTION OF INSULIN: PREPARATION AND BIOLOGICAL ACTIVITY OF GUINEA PIG DES B-ASP30, DES-A-ASN21-INSULIN. Yip CC, Moule ML *Can J Biochem* 54: 866-71, Oct 76 (Eng) DL/77MAR21

Muggeo M

[CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT] Enzi G, Muggeo M, Tiengo A *Minerva Med* 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285

Diabetes Literature—Author Index

Muggeo M

Muller MJ

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

Muller WA

PHOSPHORYLATION REACTIONS IN ISLETS OF LANGERHANS. Muller WA, Amherdt ML, Vachon AC, Renold AE *J Physiol (Paris)* 72: 711-20, Nov 76 (Eng) DL/77MAR203
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (physiology); ANIMAL; GLUCOSE (physiology); INSULIN (secretion); ISLANDS OF LANGERHANS (enzymology); PHOSPHOMONOESTERASES (physiology); PHOSPHORUS RADIOISOTOPES; PROTEIN KINASE (physiology); RATS.

Muller-Hess R

INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabetes Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

ADULT; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); CATECHOLAMINES (urine); COMPARATIVE STUDY; DRUG INTERACTIONS; EPINEPHRINE (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (blood); HUMAN; HYDROCORTISONE (blood); INSULIN (blood, pharmacodynamics); LIPIDS (metabolism); MALE; OXIDATION-REDUCTION; SOMATOTROPIN (blood); STIMULATION, CHEMICAL.

Muller-Wieland K

[THERAPY OF ACUTE PANCREATITIS] Muller-Wieland K *Dtsch Med Wochenschr* 101: 1729-31, 19 Nov 76 (Ger) DL/77MAR51
ACUTE DISEASE; ANTIBIOTICS (therapeutic use); FASTING; GLUCAGON (therapeutic use); HUMAN; KALLIKREIN-TRYPSIN INACTIVATOR (therapeutic use); MEPERIDINE (therapeutic use); PAIN; PANCREATITIS (surgery, therapy); PENTAZOCINE (therapeutic use); PLASMA SUBSTITUTES (therapeutic use).

Mully K

[HOW DO WE COUNSEL OUR DIABETIC PATIENTS] Berger W, Mully K *Schweiz Med Wochenschr* 106: 1049-53, 31 Jul 76 (Ger) DL/77MAR344

Munoz-Barragan L

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

Munro JF

ACUTE DIABETIC ABDOMEN [LETTER]. Campbell IW, Duncan LJ, Munro JF *Br Med J* 12: 1074, 30 Oct 76 (Eng) DL/77MAR18

Murata K

EFFECT OF PHLORIZIN ON GLUCOSE TRANSPORT IN THE INNER EAR. Takeda T, Makimoto K, Murata K, Suehiro S, Iwai H *Acta Otolaryngol (Stockh)* 81: 424-8, May-Jun 76 (Eng) *DL/77MAR541

Murphy GP

THE EFFECTS OF LONG-TERM ALTERNATE-DAY STEROIDS ON PARAMETERS OF ADRENAL FUNCTION IN RENAL TRANSPLANT PATIENTS. Keogh B, Chu TM, Murphy GP *J Urol* 115: 487-9, May 76 (Eng) *DL/77MAR516

Mutani R

[ASPECTS OF PHOSPHORUS AND CARBOHYDRATE METABOLISM IN AMYOTROPHIC LATERAL SCLEROSIS] Cravario A, Cravetto CA, Desana M, Ferrero G, Delsedime M, Mutani R, De Filippi PG *Minerva Med* 67: 3199-206, 17 Oct 76 (Ita) DL/77MAR276

Myerowitz RL

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

CALCITONIN (secretion); CELL DIVISION (drug effects); FEMALE; HUMAN; HYPOGLYCEMIA (etiology); INSULIN (secretion); ISLET CELL TUMOR (drug therapy, pathology, secretion); MIDDLE AGE; NEOPLASTIC ENDOCRINE-LIKE SYNDROMES (drug therapy); PANCREATIC NEOPLASMS (drug therapy, pathology, secretion); PARATHYROID HORMONE (secretion); STREPTOZOTOCIN (adverse effects, therapeutic use); UREMIA (chemically induced, pathology).

Naeser P

ADRENAL FUNCTION IN THE DIABETIC MURINE MOUSE (GENE SYMBOL DBM). Naeser P *Acta Physiol Scand* 98: 395-9, Dec 76 (Eng) DL/77MAR435

ADRENAL CORTEX HORMONES (secretion); ADRENAL CORTEX (physiopathology, secretion); ADRENAL GLANDS (anatomy & histology, physiopathology); AGE FACTORS; ANIMAL; DIABETES MELLITUS (familial & genetic, physiopathology); HYPERGLYCEMIA (metabolism); MALE; MICE; MICE, OBESE; ORGAN WEIGHT.

Nagati K

[DIABETIC NEUROPATHY] Derouiche F, Nagati K *Tunis Med* 54: 573-4, Mar-Apr 76 (Fre) DL/77MAR363

Najarian JS

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1123-8, Dec 76 (Eng) DL/77MAR128

TRANSPLANTATION VERSUS DIALYSIS IN HIGH RISK PATIENTS. PP. 702-9. Kjellstrand CM, Mauer SM, Shideman JR, Simmons RL, Buselmeier TJ, Najarian JS *In: O. Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a. (Eng) DL/77MAR192*

Nakagawa S

[DETERMINATION OF SERUM INSULIN (AND C-PEPTIDE)] Nakagawa S *Jpn J Clin Med* 34 suppl: 2281-9, 1976 (Jpn) [127] DL/77MAR228
C-PEPTIDE (blood); DIABETES MELLITUS (blood); HUMAN; HYPOGLYCEMIA (blood); INSULIN (blood); RADIOIMMUNOASSAY; REVIEW.

Nakashima K

DIETARY CONTROL OF INTRACELLULAR DISTRIBUTION OF RAT LIVER FUMARASE. Nakashima K, Takeda M, Tuboi S *Biochem Biophys Res Commun* 72: 1562-9, 18 Oct 76 (Eng) DL/77MAR474

ALLOXAN DIABETES (enzymology); ANIMAL; CELL MEMBRANE (enzymology); CELL NUCLEUS (enzymology); CYTOSOL (enzymology); DIETARY PROTEINS; FUMARATE HYDRATASE (metabolism); HYDRO-LYASES (metabolism); LIVER (enzymology); LYSOSOMES (enzymology);

MALE; MICROSOMES, LIVER (enzymology); MITOCHONDRIA, LIVER (enzymology); POLYRIBOSOMES (enzymology); RATS.

Nakayama K

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA—REPORT OF 2 CASES AND STUDIES OF 63 CASES IN JAPANESE LITERATURE] Ibayashi H, Funakoshi A, Wakasugi H, Nakayama K, Kimura Y *Jpn J Clin Med* 34: 2788-99, 10 Sep 76 (Jpn) DL/77MAR223

Narboni G

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER)] Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

Nardelli GM

[URINARY EXCRETION OF CATECHOLAMINES IN OBESE SUBJECTS AND IN DIABETICS (AUTHORS TRANSL.)] Giordano R, Nardelli GM, Scardapane R *Diabetes Metab* 2: 11-3, Mar 76 (Fre) DL/77MAR108

Naso A

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDEK PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Naso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

Nassauer L

[DIET THERAPY OF DIABETES MELLITUS (WITHOUT REFERENCE TO JUVENILE DIABETES)] Sauer H, Nassauer L *Internist (Berlin)* 17: 502-10, Oct 76 (Ger) [48] DL/77MAR163

Nathans A

PREPARATION AND CHARACTERIZATION OF PLASMA MEMBRANE-ENRICHED FRACTIONS FROM RAT PANCREATIC ISLETS. Lernmark A, Nathans A, Steiner DF *J Cell Biol* 71: 606-23, Nov 76 (Eng) DL/77MAR168

Nayemunnisa

NEUROCHEMICAL CORRELATES OF ALLOXAN DIABETES: PROTEIN AND RIBONUCLEIC ACID LEVELS IN THE DIFFERENT REGIONS OF THE RAT BRAIN. Jayashree C, Nayemunnisa *Experientia* 32: 1412-3, 15 Nov 76 (Eng) DL/77MAR71

Nazar K

THE NATURE OF THE TRAINING RESPONSE; PERIPHERAL AND CENTRAL ADAPTATIONS OF ONE-LEGGED EXERCISE. Saltin B, Nazar K, Costill DL, Stein E, Jansson E, Essen B, Gollnick D *Acta Physiol Scand* 96: 289-305, Mar 76 (Eng) *DL/77MAR545

Neimann N

[EVALUATION IN CHILDREN OF THE CLINICAL, BIOLOGICAL AND ELECTROENCEPHALOGRAPHIC SIDE EFFECTS OF L-ASPARAGINASE] Olive D, Cartault F, Legras B, Neimann N *Pediatr* 31: 259-78, Apr 76 (Fre) DL/77MAR307

Nerup J

AUTOIMMUNE INSULITIS. PATHOLOGICAL FINDINGS IN EXPERIMENTAL ANIMAL MODELS AND JUVENILE DIABETES MELLITUS. Egeberg J, Junker K, Kromann H, Nerup J *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 129-37, 1976 (Eng) DL/77MAR405

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M,

Diabetes Literature—Author Index

Ohno J

Platz P, Ryder L, Thomsen M, Sveigaard A *Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409*
ADOLESCENCE; ADULT; ANIMAL;
ANTIBODIES, VIRAL (analysis);
AUTOIMMUNE DISEASES; DIABETES
MELLITUS, JUVENILE (etiology, familial & genetic, immunology); GENE FREQUENCY;
HISTOCOMPATIBILITY ANTIGENS (analysis);
HL-A (analysis); HUMAN; ISLANDS OF LANGERHANS (immunology); LYMPHOCYTES (immunology); REVIEW; VIRUS DISEASES (complications).

Netter R

[THERAPEUTIC ACTION OF GLUCAGON ON PATHOLOGICAL STATES OF THE MYOCARDIUM, ESPECIALLY ON SPECIFIC CONDUCTION TISSUE DISORDERS] Sanna S, Leo P, Netter R *Boll Soc Ital Cardiol* 20: 1233-49, 1975 (Ita) DL/77MAR2

Newman B

SURFACE SULPHYDRYL GROUPS AND PHAGOCYTOSIS-ASSOCIATED OXIDATIVE METABOLIC CHANGES IN HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, McIntyre PA *Br J Haematol* 33: 189-204, Jun 76 (Eng) *DL/77MAR479

SURFACE SULPHYDRYL GROUPS AND HEXOSE MONOPHOSPHATE PATHWAY ACTIVITY IN RESTING HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, Chusid MJ, Wolff SM, McIntyre PA *Br J Haematol* 33: 205-11, Jun 76 (Eng) *DL/77MAR480

Nicholson T

STOMACH MOTILITY IN INSULIN-TREATED SHEEP. Ali TM, Nicholson T, Singleton AG *Q J Exp Physiol* 61: 321-9, Oct 76 (Eng) DL/77MAR331

Nicita-Mauro V

[CLOFIBRATE AND CARBOHYDRATE METABOLISM: BEHAVIOR OF BLOOD INSULIN IN PATIENTS WITH BLOOD LIPID DISORDERS] Ceruso D, Frisina N, Nicita-Mauro V *Boll Soc Ital Cardiol* 20: 1439-47, 1975 (Ita) DL/77MAR3

Nilsson B

EVIDENCE AGAINST H& AND K& AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *In: Betz E, ed. Ionic actions on vascular smooth muscle. Berlin, Springer, 1976. W3 SY732 1976i. (Eng) DL/77MAR187*

Nilsson-Ehle P

HYDROLYSIS OF TRI- AND MONOACYLGLYCEROL BY LIPOPROTEIN LIPASE: EVIDENCE FOR A COMMON ACTIVE SITE. Twu JS, Nilsson-Ehle P, Schotz MC *Biochemistry* 15: 1904-9, 4 May 76 (Eng) *DL/77MAR482

Nishimura I

[EFFECT OF GLUCAGON ADMINISTRATION ON BLOOD GLUCOSE LEVEL IN TOTALLY PANCREATIZED DOGS (AUTHORS TRANSL)] Nishimura I *Arch Jpn Chir* 45: 390-7, 1 Sep 76 (Jpn) DL/77MAR467
ANIMAL; BLOOD SUGAR (metabolism); DOGS; ENGLISH ABSTRACT; GLUCAGON (pharmacodynamics); PANCREATECTOMY.

Nissen L

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON

AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL)] Dorn A, Scharowski KR, Nissen L, Koch G, Ziegler M *Acta Histochem (Lena) 56: 270-84, 1976 (Ger) DL/77MAR424*

Nissimov MR

POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY. Machtley I, Syrkis I, Nissimov MR, Lobel H *J Am Geriatr Soc* 24: 534-7, Dec 76 (Eng) DL/77MAR185

Nonaka K

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

Nophakoon J

MECHANISM OF INHIBITION OF GASTRIC ACID SECRETION BY HYPERTONIC SOLUTIONS AND VASOPRESSIN. Limlomwongse L, Nophakoon J, Thithapandha A *Pfluegers Arch* 366: 159-65, 5 Nov 76 (Eng) DL/77MAR309

Norberg K

EVIDENCE AGAINST H& AND K& AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEPTIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjö BK *In: Betz E, ed. Ionic actions on vascular smooth muscle. Berlin, Springer, 1976. W3 SY732 1976i. (Eng) DL/77MAR187*

GLUCOSE CONSUMPTION IN RAT CEREBRAL CORTEX IN NORMOXIA, HYPOXIA AND HYPERCAPNIA. Borgstrom L, Norberg K, Siesjö BK *Acta Physiol Scand* 96: 569-74, Apr 76 (Eng) *DL/77MAR546

Nordmeyer P

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

Nosedá V

MYOCARDIAL FUNCTION AND ENERGETICS DURING ACUTE ESCHERICHIA COLI ENDOTOXIN ADMINISTRATION: IN VIVO AND IN VITRO INVESTIGATIONS. Marchetti G, Merlo L, Nosedá V, Brusoni B *Recent Adv Stud Cardiac Struct Metab* 7: 313-20, 1975 (Eng) *DL/77MAR527

Notkins AL

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272

Numan R

ALLEVIATION OF NARCOTIC WITHDRAWAL SYNDROME BY CONDITIONAL STIMULI. Lal H, Miksic S, Drawbaugh N, Numan R, Smith N *Pavlov J Biol Sci* 11: 251-62, Oct-Dec 76 (Eng) DL/77MAR303

Nussel E

[RISK FACTORS OF ARTERIOSCLEROSIS IN PATIENTS WITH SEVERE BRADYCARDIA

ARRHYTHMIAS] Hasslacher C, Wahl P, Thor-specken R, Nussel E *Z Kardiol* 65: 890-6, Oct 76 (Ger) DL/77MAR393

O'Brien MD

UV DIFFERENCE SPECTROSCOPIC STUDIES OF THE INTERACTION OF ALLOSTERIC LIGANDS AND NEUROSPORA PYRUVATE KINASE. O'Brien MD, Kapoor M *FEBS Lett* 58: 366-9, 15 Oct 75 (Eng) *DL/77MAR502
ALLOSTERIC REGULATION; ALLOSTERIC SITE; FRUCTOSEPHOSPHATES (metabolism, pharmacodynamics); NEUROSPORA CRASSA (enzymology); PROTEIN CONFORMATION (drug effects); PYRUVATE KINASE (metabolism); SPECTROPHOTOMETRY, ULTRAVIOLET; VALINE (metabolism, pharmacodynamics).

Obuchowicz-Fidels B

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Bobilewicz D, Wilk M, Obuchowicz-Fidels B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

O'Connor KJ

AN APPROACH TO A MOLECULAR UNDERSTANDING OF EXOCYTIC INSULIN RELEASE. Lazarus NR, Davis B, O'Connor KJ *J Physiol (Paris)* 72: 787-94, Nov 76 (Eng) DL/77MAR209

Odorisio TM

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, Odorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

Oehmisch W

[STATISTICAL RELATIONSHIPS BETWEEN FOOD SUPPLY AND THE MORTALITY OF SOME CHRONIC DEGENERATIVE DISEASES IN EIGHT INDUSTRIALLY DEVELOPED COUNTRIES] Haenel H, Ulbricht G, Oehmisch W, Erhardt V *Z Gesamte Hyg* 22: 748-58, 1976 (Ger) DL/77MAR390

Ogielska E

[DIABETIC RETINOPATHY TREATED WITH PHOTOCOAGULATION] Ogielska E, Baran L, Huszcza A *Klin Oczna* 46: 1277-9, Nov 76 (Pol) DL/77MAR232
ADULT; DIABETIC RETINOPATHY (surgery); ENGLISH ABSTRACT; FEMALE; FOLLOW-UP STUDIES; HUMAN; LASER COAGULATION; MALE; MIDDLE AGE; VISUAL ACUITY; XENON (therapeutic use).

Ohneda A

INSULIN AND GLUCAGON RESPONSE IN PATIENTS WITH CHRONIC PANCREATITIS. Ohneda A, Kai Y, Ishii S, Matsuda K, Horigome K *Tohoku J Exp Med* 120: 287-98, Nov 76 (Eng) DL/77MAR360
ADOLESCENCE; ADULT; ARGININE (pharmacodynamics); CHRONIC DISEASE; DIABETES MELLITUS (etiology); FEMALE; GLUCAGON (blood); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; MIDDLE AGE; PANCREAS (physiopathology); PANCREATITIS (blood, complications, physiopathology).

Ohno J

[DETERMINATION OF SERUM MAGNESIUM] Yoshida M, Ohno J *Jpn J Clin Med* 34 suppl: 2024-35, 1976 (Jpn) DL/77MAR227

Ohno J

Oka H

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

Okas S

LEUCOCYTE-MIGRATION INHIBITION INDUCED BY UVEORETINAL ANTIGEN IN PATIENTS WITH DIABETIC RETINOPATHY. Aviner Z, Henley WL, Okas S, Leopold IH *Diabetes* 25: 1106-9, Dec 76 (Eng) DL/77MAR125

Okoh O

[LEUCINE-SENSITIVE HYPOGLYCEMIA AND ITS DIET THERAPY] Okoh O, Dallmeier M *Munch Med Wochenschr* 118: 1505-6, 12 Nov 76 (Ger) DL/77MAR266

AMINO ACID METABOLISM, INBORN ERRORS (complications, diet therapy); CASE REPORT; CHILD; DIAGNOSTIC ERRORS; FEMALE; HUMAN; HYPOGLYCEMIA (complications, diet therapy, diagnosis, familial & genetic); LEUCINE (metabolism); SPASMS, INFANTILE (diet therapy, diagnosis, etiology).

Okun E

PHOTOCOAGULATION IN DIABETIC RETINOPATHY. Arribas NP, Johnston GP, Okun E *Int Ophthalmol Clin* 16: 59-77, Winter 76 (Eng) DL/77MAR160

Oldewurtel HA

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Oldewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41

Olefsky JM

THE INSULIN RECEPTOR: ITS ROLE IN INSULIN RESISTANCE OF OBESITY AND DIABETES. Olefsky JM *Diabetes* 25: 1154-62, Dec 76 (Eng) [83] DL/77MAR130

ADIPOSE TISSUE (cytology, metabolism); ADULT; ANIMAL; CHILD; DEOXYGLUCOSE (metabolism); DIABETES MELLITUS (physiopathology); DOSE-RESPONSE RELATIONSHIP, DRUG; HUMAN; INSULIN RESISTANCE; INSULIN (metabolism); OBESITY (physiopathology); PROTEIN BINDING; RECEPTORS, INSULIN (physiology); REVIEW; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

EFFECTS OF FASTING ON INSULIN BINDING, GLUCOSE TRANSPORT, AND GLUCOSE OXIDATION IN ISOLATED RAT ADIPOCYTES: RELATIONSHIPS BETWEEN INSULIN RECEPTORS AND INSULIN ACTION. Olefsky JM *J Clin Invest* 58: 1450-60, Dec 76 (Eng) DL/77MAR181

ADIPOSE TISSUE (cytology, metabolism); ANIMAL; BIOLOGICAL TRANSPORT; FASTING; FOOD DEPRIVATION; GLUCOSE (metabolism); INSULIN (metabolism); MALE; OXIDATION-REDUCTION; OXIDATIVE PHOSPHORYLATION; RATS; RECEPTORS, INSULIN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Olive D

[EVALUATION IN CHILDREN OF THE CLINICAL, BIOLOGICAL AND ELECTROENCEPHALOGRAPHIC SIDE EFFECTS OF L-ASPARAGINASE] Olive D, Certault F, Legras B, Neimann N *Pediatr* 31: 259-78, Apr 76 (Fre) DL/77MAR307

ADOLESCENCE; ASPARAGINASE (adverse effects); BLOOD COAGULATION DISORDERS (chemically induced); BRAIN (drug effects); CHILD; CHILD, PRESCHOOL; DIABETES

MELLITUS (chemically induced); DRUG HYPERSENSITIVITY; ELECTROENCEPHALOGRAPHY; ENGLISH ABSTRACT; FEVER (chemically induced); GASTROINTESTINAL DISEASES (chemically induced); HEMOSTASIS (drug effects); HEPATITIS, TOXIC; HUMAN; INFANT; KIDNEY (drug effects); LEUKEMIA, LYMPHOBLASTIC (drug therapy); LEUKEMIA, MYELOBLASTIC (drug therapy); LIVER (drug effects); MUSCLES (drug effects); PANCREAS (drug effects); PANCREATITIS (chemically induced); THROMBOPENIA (chemically induced).

Oliver JR

SOMATOSTATIN INHIBITION OF GLUCAGON-STIMULATED ADENOSINE 3-5-MONOPHOSPHATE ACCUMULATION IN ISOLATED HEPATOCYTES. Oliver JR, Long K, Wagle SR, Allen DO *Proc Soc Exp Biol Med* 153: 367-9, Nov 76 (Eng) DL/77MAR327

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ANIMAL; CELLS, CULTURED; GLUCAGON (antagonists & inhibitors); LIVER (drug effects, metabolism); MALE; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

Olivier R

[ACUTE FACIAL MUCROMYCOSIS IN A DIABETIC SUBJECT. SUCCESSFUL TREATMENT WITH AMPHOTERICIN B] Olivier R, Legrand R, Lefebvre P *Diabete Metab* 1: 221-5, Dec 75 (Fre) DL/77MAR104

ACIDOSIS, DIABETIC (complications); ADULT; AMPHOTERICIN B (administration & dosage, therapeutic use); CASE REPORT; ENGLISH ABSTRACT; EYE DISEASES (drug therapy); HUMAN; MALE; MAXILLARY SINUS (microbiology); MUCORMYCOSIS (complications, drug therapy); PALATE; PARANASAL SINUS DISEASES (drug therapy).

Onda M

FLUORESCENCE HISTOCHEMICAL STUDY OF THE PANCREAS IN THE CAT. Onda M *Gastroenterol Jpn* 11: 246-61, 1976 (Eng) DL/77MAR131

ADRENERGIC FIBERS (cytology); ANIMAL; BIOGENIC AMINES (metabolism); CATS; CHOLINERGIC FIBERS (cytology); ETHIONINE (administration & dosage); HISTOLOGICAL TECHNIQS; ISLANDS OF LANGERHANS (pathology); MICROSCOPY, FLUORESCENCE; PANCREAS (cytology, innervation, pathology); PANCREATITIS (chemically induced, pathology); TIME FACTORS.

Onegova RF

[DIABETES MELLITUS AND DEAFNESS] Kozlov Mla, Onegova RF, Petrov VS, Sokoloverova IM *Vestn Otorinolaringol* 21-5, Sep-Oct 76 (Rus) DL/77MAR366

Opitz M

[HISTOTOPOCHEMICAL INVESTIGATIONS ON ELASTIC MEMBRANES OF BLOOD VESSELS WITH SPECIAL REGARD OF DIABETES MELLITUS. IV. HEAVY METALS (AUTHORS TRANSL.)] Opitz M, Von Dorsche HH *Acta Histochem (Jena)* 56: 211-4, 1976 (Ger) DL/77MAR423

ANIMAL; BLOOD VESSELS (analysis); DIABETIC ANGIOPATHIES (metabolism); ELASTIC TISSUE (analysis); HISTOCYTOCHEMISTRY; HUMAN; IRON (analysis); METALS (analysis); RATS; ZINC (analysis).

Oppolzer R

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Sinzinger H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R *Wien Med Wochenschr* 125: 611-4, 17 Oct 75 (Ger) *DL/77MAR536

Orci L

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE. Patel YC, Orci L, Bankier A, Cameron DP *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

Oseid S

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND HGH. Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-55, Dec 76 (Eng) DL/77MAR402

ADOLESCENCE; CARBOHYDRATES (metabolism); CHILD; ENERGY METABOLISM; EXERTION; FATTY ACIDS, NONESTERIFIED (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); LIPIDS (metabolism); LIPODYSTROPHY (blood, congenital, metabolism); MALE; MUSCLES (metabolism); SOMATOTROPIN (blood).

Osman OH

PROCEEDINGS: PHARMACOLOGY OF BITIS ARIETANS VENOM. Gumaa KA, Osman OH *West Afr J Pharmacol Drug Res* 2: 92p-93p, Dec 74 (Eng) *DL/77MAR535

Osmundsen H

THE BIOCHEMICAL BASIS OF JAMAICAN AKEE POISONING. Billington D, Osmundsen H, Sherratt HS *N Engl J Med* 295: 1482, 23 Dec 76 (Eng) DL/77MAR267

Osnes JB

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

Ostashevskaja MI

[STATE OF LIPID METABOLISM AND THE ORGAN OF VISION IN CHILDREN WITH DIABETES MELLITUS] Ostashevskaja MI, Petrashevskaja MM, Shcherbina RV *Vopr Okhr Materin Det* 21: 17-20, Feb 76 (Rus) DL/77MAR371

ADOLESCENCE; CHILD; DIABETES MELLITUS, JUVENILE (blood); DIABETIC RETINOPATHY (blood); ENGLISH ABSTRACT; HUMAN; LIPIDS (blood).

Ostman J

REJECTION OF ISOLATED PANCREATIC ALLOGRAFTS IN PATIENTS WITH DIABETES. Groth CG, Lundgren G, Arner P, Collste H, Hardstedt C, Lewander RV, Ostman J *Surg Gynecol Obstet* 143: 933-40, Dec 76 (Eng) DL/77MAR353

Owusu SK

HYPEROSMOLAR NON-KETOTIC DIABETIC COMA IN A JUVENILE. Owusu SK, Anterkyi FS, Shaw-Taylor KE, Konotey-Ahulu FI *Ghana Med J* 14: 241-2, Sep 75 (Eng) DL/77MAR397

ADOLESCENCE; AGE FACTORS; CASE REPORT; DIABETIC COMA (therapy); FEMALE; HUMAN; HYPERGLYCEMIC HYPEROSMOLAR NONKETOTIC COMA (diagnosis, therapy).

Oye I

BASAL AND HORMONE-INDUCED URINARY CYCLIC AMP IN CHILDREN WITH RENAL DISORDERS. Monn E, Osnes JB, Oye I *Acta Paediatr Scand* 65: 739-45, Nov 76 (Eng) DL/77MAR428

Diabetes Literature—Author Index

Peters K

Ozand PT

ABILITY OF EXOGENOUS ALANINE TO LOWER BLOOD BETA-HYDROXYBUTYRATE DURING DEVELOPMENT IN RATS. Ozand PT, Tildon JT, Stevenson JH, Reed WD, Cornblath M *Am J Physiol* 230: 1385-8, May 76 (Eng) *DL/77MAR551

ALANINE (blood, pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR; GLUTAMATES (pharmacodynamics); GROWTH; HYDROXYBUTYRATES (blood); KINETICS; LACTATES (blood); PYRUVATES (blood); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Pacaud M

PROTEASE I FROM ESCHERICHIA COLI. SOME PHYSICO-CHEMICAL PROPERTIES AND SUBSTRATE SPECIFICITY. Pacaud M, Sibill S, Bras G *Eur J Biochem* 69: 141-51, 1 Oct 76 (Eng) DL/77MAR65

AMINO ACID SEQUENCE; AMINO ACIDS (analysis); DISULFIDES (analysis); ESCHERICHIA COLI (enzymology); IMMUNOELECTROPHORESIS; INSULIN; KINETICS; MOLECULAR WEIGHT; PEPTIDE HYDROLASES (isolation & purification, metabolism); PROTEIN BINDING; STRUCTURE-ACTIVITY RELATIONSHIP; UREA.

Pachiarotti P

[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA] Mioli V, Pachiarotti P, Ragaiolo M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523

Pagliara AS

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

Paravecchio R

HYPOLYCEMIC PATIENTS REQUIRE SPECIAL PRECAUTIONS. Paravecchio R, Jarabak JP *Dent Stud* 54: 61, Feb 76 (Eng) DL/77MAR79

ADULT; CASE REPORT; EMERGENCIES; FEMALE; HUMAN; HYPOGLYCEMIA; OREGON; SCHOOLS, DENTAL.

Park YS

PROPERTIES OF TOAD SKIN NA-K-ATPASE WITH SPECIAL REFERENCE TO EFFECT OF TEMPERATURE. Park YS, Hong SK *Am J Physiol* 231: 1356-63, Nov 76 (Eng) DL/77MAR449

ADENOSINE TRIPHOSPHATASE (physiology); ADENOSINE TRIPHOSPHATE (pharmacodynamics); AMILORIDE (pharmacodynamics); ANIMAL; BIOLOGICAL TRANSPORT (drug effects); BUFO MARINUS; HYDROGEN-ION CONCENTRATION (physiology); IN VITRO; INSULIN (pharmacodynamics); KINETICS; MAGNESIUM (pharmacodynamics); OUBAIN (pharmacodynamics); POTASSIUM; SKIN (enzymology, metabolism); SODIUM (metabolism); TEMPERATURE; THYROXINE (pharmacodynamics); VASOPRESSIN (pharmacodynamics).

Parsons JA

TRANSPLANTATION OF ISLET TISSUE IN THE RAT. Hegre OD, Leonard RJ, Erlandsen SL, McEvoy RC, Parsons JA, Elde RP, Lazarow A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 257-81, 1976 (Eng) DL/77MAR415

Partale V

[INFLUENCE OF HEPARIN ON THE RADIOIMMUNOLOGIC ASSAY OF INSULIN] Schaller K, Harmeyer J, Partale V *Dtsch Tierarztl Wochenschr* 83: 436-8, 5 Oct 76 (Ger) DL/77MAR54

Pasquino M

[PRELIMINARY OBSERVATIONS ON THE BEHAVIOR OF IMMUNOGLOBULINS IN DIABETICS TREATED BY DIFFERENT METHODS] Bruno A, Innocenti M, Pasquino M, Pugliese F, Zola P *Minerva Med* 67: 3255-60, 20 Oct 76 (Ita) DL/77MAR280

Passa P

[MYOCARDIAL INFARCTION IN DIABETICS (AUTHORS TRANSL)] Passa P, Masquet C, Krajevitch A, Brasquer Y, Bouvrain Y *Diabete Metab* 1: 179-83, Sep 75 (Fre) DL/77MAR99

AGED; DIABETES MELLITUS (complications, mortality); ENGLISH ABSTRACT; FEMALE; FRANCE; HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT (complications, mortality).

Patel YC

DECREASED PANCREATIC SOMATOSTATIN (SRIF) CONCENTRATION IN SPONTANEOUSLY DIABETIC MICE. Patel YC, Orci L, Bankier A, Cameron DP *Endocrinology* 99: 1415-8, Nov 76 (Eng) DL/77MAR62

ANIMAL; BLOOD SUGAR (analysis); BODY WEIGHT; DIABETES MELLITUS (metabolism); GLUCAGON (analysis); INSULIN (blood); MALE; MICE; MICE, INBRED C57BL; PANCREAS (analysis); SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis).

Patton GS

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

Patz A

DIABETIC MACULAR EDEMA. Patz A, Fine SL *Int Ophthalmol Clin* 16: 105-113, Winter 76 (Eng) DL/77MAR157

ADULT; DIABETIC RETINOPATHY (complications, surgery); EDEMA (complications, surgery); FEMALE; FLUORESCENCE ANGIOGRAPHY; HUMAN; HYPERTENSION (complications); KIDNEY FAILURE, CHRONIC (complications); LASER COAGULATION (methods); MACULA LUTEA (pathology, surgery); MIDDLE AGE; PROGNOSIS.

Pecard F

[CHANGES IN CARBOHYDRATE METABOLISM AND EFFICIENCY OF HYPOGLYCEMIC DRUGS RELATED TO THE LIGHT DARK CYCLE IN RATS. A STUDY ON STIMULATED DIAPHRAGM (AUTHORS TRANSL)] Sterne J, Pecard F *Diabete Metab* 2: 21-5, Mar 76 (Fre) DL/77MAR110

Pecoldowa K

[PRELIMINARY EXPERIENCES IN THE TREATMENT OF RETINAL DISEASES WITH ARGON LASER] Pecoldowa K, Kaluzny J *Klin Oczna* 46: 1305-11, Nov 76 (Pol) DL/77MAR234

ADULT; AGED; DIABETIC RETINOPATHY (surgery); ENGLISH ABSTRACT; HUMAN; LASER COAGULATION; MIDDLE AGE; RETINAL DEGENERATION (surgery); RETINAL DETACHMENT (surgery); RETINAL DISEASES (surgery).

Pekkarinen A

CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lammintausta R, Syvalhti E, Pek-

karinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

Pena F

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijk B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 23: 339-46, 1975 (Eng) DL/77MAR433

Pene F

CHARACTERIZATION OF PHENFORMIN AND METABOLITES IN PLASMA. Heuclin C, Pene F, Savouret JF, Assan R *Diabete Metab* 1: 234-40, Dec 75 (Eng) DL/77MAR105

Pequignot E

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

Percy-Robb IW

A RAPID METHOD FOR THE MEASUREMENT OF PLASMA GLUCOSE CONCENTRATION. Telfer Brunton WA, Percy-Robb IW *Clin Chim Acta* 69: 131-5, 17 May 76 (Eng) *DL/77MAR494

Perlemuter L

[RESULTS OF LONG TERM USE OF A LOW DOSE ESTROPROGESTATIN IN DIABETICS AND HIGH RISK WOMEN] Perlemuter L, Hazard J, Jouin-Caurier D, Clipet M *Nouv Presse Med* 5: 2853-6, 11 Dec 76 (Fre) DL/77MAR312

BLOOD SUGAR (analysis); CONTRACEPTIVES, ORAL; DIABETES MELLITUS; DRUG TOLERANCE; ENGLISH ABSTRACT; FEMALE; HUMAN; LONG TERM CARE; OBESITY; RISK.

Permutt MA

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOGLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

ADULT; BLOOD SUGAR (metabolism); DIETARY CARBOHYDRATES (metabolism); FEMALE; GLUCAGON (blood); GLUCOSE TOLERANCE TEST; HUMAN; HYPOGLYCEMIA (etiology); INSULIN (blood); MALE.

Perrino PV

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatnaga SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

Persson B

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B *Acta Paediatr Scand* 65: 343-53, May 76 (Eng) *DL/77MAR542

Pesant P

[LACTIC ACIDOSIS AND PHENFORMIN] Benoit R, Lacroix A, D'Amico P, Pesant P, Matte R *Union Med Can* 105: 1810-4, Dec 76 (Fre) DL/77MAR364

Peters K

INVESTIGATIONS ON THE FUNCTION OF THE RAT FORESTOMACH. Kunstir I, Peters K, Gartner K *Lab Anim Sci* 26: 166-70, Apr 76 (Eng) *DL/77MAR519

Diabetes Literature—Author Index

Peters K

Petersen H

[HEMODYNAMICS, METABOLISM AND FUNCTION OF THE PERFUSED PANCREAS UNDER NORMAL TEMPERATURE] Meyer W, Petersen H *Z Exp Chir* 9: 113-9, 1976 (Ger) DL/77MAR391

Petraniuk EI

[VOCATIONAL REHABILITATION OF PATIENTS WITH DIABETES MELLITUS WHO HAVE UNDERGONE SURGERY FOR PULMONARY TUBERCULOSIS] Iatsozhinskii IuD, Petraniuk EI, Molotov VN, Kriuchkov VE *Vrach Delo* 108-11, Jul 76 (Rus) DL/77MAR383

Petrashvskaya MM

[STATE OF LIPID METABOLISM AND THE ORGAN OF VISION IN CHILDREN WITH DIABETES MELLITUS] Ostashevskaya MI, Petrashvskaya MM, Shcherbina RV *Vopr Okhr Materin Det* 21: 17-20, Feb 76 (Rus) DL/77MAR371

Petrides P

[PERSONALITY AND SOCIAL BEHAVIOR OF ADULT DIABETICS] Lohmann R, Meuter F, Petrides P, Gruncklee D *Med Welt* 27: 1997-2002, 15 Oct 76 (Ger) DL/77MAR250

Petrov VS

[DIABETES MELLITUS AND DEAFNESS] Kozlov MA, Onegova RF, Petrov VS, Sokoloverova IM *Vestn Otorinolaringol* 21-3, Sep-Oct 76 (Rus) DL/77MAR366

Pfeiffer EF

[STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabete Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

Phillips MJ

[ISOLATED MAMMALIAN HEPATOCYTES IN CULTURE. Jeejeebhoy K, Phillips MJ *Gastroenterology* 71: 1086-96, Dec 76 (Eng) [121] DL/77MAR132

Phillips WA

[NONISOTOPIC METHOD FOR ESTIMATING CHOLESTEROLENEMIA IN THE RAT. Phillips WA, Ratchford JM, Schulta JR *Adv Exp Med Biol* 67: 251-265, 1976 (Eng) *DL/77MAR548
[ANDROSTENES (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CHOLESTEROL (biosynthesis, blood, pharmacodynamics); CHOLESTEROL, DIETARY; CHOLESTYRAMINE (pharmacodynamics); CLOFIBRATE (pharmacodynamics); DESMOSTEROL (blood); MALE; METHANESULFONATES (pharmacodynamics); NICOTINIC ACIDS (pharmacodynamics); RATS; THYROXINE (pharmacodynamics).

Pimenov LT

[PRECLINICAL DIAGNOSIS OF DIABETIC NEPHROPATHIES WITH THE AID OF RADIOINDICATION METHODS] Leshchinskii LA, Losaberidze BB, Pimenov LT *Ter Arkh* 48: 73-9, 1976 (Rus) DL/77MAR356

Pingault C

[PANRETINOPHOTOCOAGULATION] Bonnet M, Pingault C, Grange JD *Klin Oczna* 46: 1289-92, Nov 76 (Pol) DL/77MAR233

Pinggera WF

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Sinzinger H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R *Wien Med Wochenschr* 125: 611-4, 17 Oct 75 (Ger) *DL/77MAR536

Pipeleers DG

[IN VITRO BIOSYNTHESIS AND RELEASE OF THREE IMMUNO-REACTIVE INSULIN-LIKE COMPONENTS BY A HUMAN INSULINOMA. Pipeleers DG, Levy J, Malaisse-Lagae F, Malaisse WJ *Diabete Metab* 1: 7-11, Mar 75 (Eng) DL/77MAR87
[ADOLESCENCE; ANIMAL; CYCLOHEXIMIDE (pharmacodynamics); GLUCOSE (pharmacodynamics); HUMAN; IN VITRO; INSULIN (biosynthesis, immunology); ISLANDS OF LANGERHANS (drug effects, metabolism, secretion); ISLET CELL TUMOR (metabolism, secretion, ultrastructure); LEUCINE (metabolism); MALE; MOLECULAR WEIGHT; PROINSULIN (biosynthesis); RATS.

[METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118

Pipeleers-Marichal MA

[METABOLIC AND MORPHOLOGIC STUDIES IN INTRAPORTAL-ISLET-TRANSPLANTED RATS. Pipeleers-Marichal MA, Pipeleers DG, Cutler J, Lacy PE, Kipnis DM *Diabetes* 25: 1041-51, Nov 76 (Eng) DL/77MAR118
[ANIMAL; BLOOD SUGAR (metabolism); DIABETES MELLITUS (chemically induced, metabolism, pathology); GLUCAGON (blood); INSULIN (blood); ISLANDS OF LANGERHANS (metabolism, pathology, transplantation); LIVER (pathology); MALE; POLYURIA (therapy); PORTAL SYSTEM; RATS; STREPTOZOTOCIN; TIME FACTORS; TRANSPLANTATION, HOMOLOGOUS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Pirnay F

[QUANTITATIVE EVALUATION OF THE OXIDATION OF AN EXOGENOUS GLUCOSE LOAD USING NATURALLY LABELED 13C-GLUCOSE. Mosora F, Lefebvre P, Pirnay F, Lacroix M, Luyckx A, Duchesne J *Metabolism* 25: 1575-82, Dec 76 (Eng) DL/77MAR253

Piters K

[CHLORPROPAMIDE-INDUCED HYPONATREMIA. Piters K *J Clin Endocrinol Metab* 43: 1085-7, Nov 76 (Eng) DL/77MAR170
[ADULT; CASE REPORT; CHLORPROPAMIDE (adverse effects, therapeutic use); DIABETES INSIPIDUS (drug therapy); FEMALE; HUMAN; HYPONATREMIA (chemically induced); VASOPRESSIN (secretion).

Pittet P

[INTERACTIONS OF INSULIN AND EPINEPHRINE IN HUMAN METABOLISM: THEIR INFLUENCE ON CARBOHYDRATE AND LIPID OXIDATION RATE. Muller-Hess R, Geser CA, Pittet P, Chappuis P, Jequier E, Felber JP *Diabete Metab* 1: 151-7, Sep 75 (Eng) DL/77MAR97

Platz P

[HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

Plechistova LA

[SECONDARY DIABETIC XANTHOMATOSIS] Khidrydov KhN, Plechistova LA *Vestn Dermatol Venerol* 66-8, Jul 76 (Rus) DL/77MAR395

Plonk JW

[PLASMA AMINO ACIDS IN PATIENTS WITH THE CARCINOID SYNDROME. Feldman JM, Plonk JW, Admiraal J, Sidbury, JB *Cancer* 38: 2127-31, Nov 76 (Eng) DL/77MAR28

Plouin PF

[STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hautecoeuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

Podolsky S

[ABNORMAL GLUCOSE TOLERANCE AND ARGININE TOLERANCE TESTS IN HUNTINGTONS DISEASE. Podolsky S, Leopold NA *Gerontology* 23: 55-63, 1977 (Eng) DL/77MAR136
[ADULT; AGED; ARGININE (diagnostic use); DIABETIC NEUROPATHIES (blood); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HUNTINGTON CHOREA (blood); INSULIN (blood); MALE; MIDDLE AGE; SOMATOTROPIN (blood).

Poels CL

[CHRONIC TOXIC EFFECTS OF THE WATER OF THE RIVER RHINE UPON RAINBOW TROUTS. PP. 81-91. Poels CL, Strik JJ *Ino Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [131] *DL/77MAR508
[ADIPOSE TISSUE (metabolism); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); COMPARATIVE STUDY; FISH DISEASES (chemically induced); FRESH WATER (analysis); HEMATOOCRIT; HEMOGLOBINS (metabolism); HYDROCARBONS, CHLORINATED (metabolism); KIDNEY (drug effects); LIVER (drug effects, metabolism); MONOGRAPH (mortality); NETHERLANDS; POLYCHLOROBIPHENYL COMPOUNDS (metabolism); REVIEW; SALMONIDAE (blood); STRESS (veterinary); TIME FACTORS; TROUT (blood); WATER POLLUTANTS (toxicity); WATER POLLUTANTS, CHEMICAL (toxicity); WATER (analysis).*

Pohoska E

[THE EFFECT OF RESTRICTION OF PHYSICAL ACTIVITY ON ADAPTATION TO PROLONGED EXERCISE IN DOGS. Pohoska E *Acta Physiol Pol* 27: 199-202, Mar-Apr 76 (Eng) *DL/77MAR544
[ADAPTATION, PHYSIOLOGICAL; ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); DOGS; EXERTION; GLYCOGEN (analysis); MALE; MUSCLES (analysis); PHYSICAL CONDITIONING, ANIMAL; TIME FACTORS.

Pointner H

[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATECTOMIZED PATIENTS (AUTHORS TRANSL.) Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

Pometta D

[HYPERLIPIDEMIA AND DIABETES] Pometta D *Schweiz Med Wochenschr* 106: 1054-5, 31 Jul 76 (Fre) DL/77MAR345
[CHYLOMICRONS (metabolism); DIABETES MELLITUS (complications, familial & genetic); ENGLISH ABSTRACT; HUMAN; HYPERLIPIDEMIA (etiology); LIPOPROTEINS, VLDL (biosynthesis); LIVER (metabolism); TRIGLYCERIDES (metabolism).

Ponz De Leon M

[BILE COMPOSITION IN PATIENTS WITH HIGH RISK OF CHOLELITHIASIS] Ponz De Leon M, Ferendreras R, Carulli N *Minerva Med* 67: 3483-90, 3 Nov 76 (Ita) DL/77MAR284
[ADULT; BILE ACIDS AND SALTS (analysis); BILE (analysis); CHOLELITHIASIS (etiology, metabolism); CHOLESTEROL (analysis);

Diabetes Literature—Author Index

Rabinovitch A

DIABETES MELLITUS (complications); **ENGLISH ABSTRACT**; **FEMALE**; **HUMAN**; **LIPIDS** (metabolism); **LIVER CIRRHOSIS** (complications); **MALE**; **MIDDLE AGE**; **PHOSPHOLIPIDS** (analysis).

Porsche E

GLYCEROLKINASE—A REGULATORY ENZYME OF GLUCONEOGENESIS Seitz HJ, Porsche E, Tarnowski W *Acta Biol Med Ger* 35: 141-54, 1976 (Eng) DL/77MAR400

Porterfield SP

THE EFFECT OF MATERNAL HYPOTHYROIDISM ON MATERNAL AND FETAL TISSUE GLUCOSE-1-14C INCORPORATION IN RATS. Porterfield SP, Hendrich CE *Horm Res* 6: 236-46, 1975 (Eng) *DL/77MAR504
ANIMAL EXPERIMENTS (analysis); **BLOOD SUGAR** (metabolism); **FEMALE**; **FETUS** (physiology); **GLUCOSE** (metabolism); **GLYCOGEN** (metabolism); **HYPOTHYROIDISM** (metabolism); **LIVER GLYCOGEN** (metabolism); **LIVER** (metabolism); **MATERNAL-FETAL EXCHANGE**; **MUSCLES** (metabolism); **ORGAN SPECIFICITY**; **PLACENTA** (metabolism); **PREGNANCY COMPLICATIONS** (metabolism); **PREGNANCY**; **RATS**; **THYROIDECTOMY**; **UNITED STATES GOVERNMENT SUPPORTED**, N.I.H.).

Portier R

EFFECTS OF LIPOLYTIC AND ANTI-LIPOLYTIC DRUGS ON METABOLISM OF ADENOSINE 3:5-MONOPHOSPHATE IN BROWN ADIPOSE TISSUE OF COLD ACCLIMATED RATS. Bertin R, Portier R *Eur J Biochem* 69: 177-83, 1 Oct 76 (Eng) DL/77MAR66

Porzio G

EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277
ACROMEGALY (blood); **BLOOD SUGAR** (analysis); **GLUCAGON** (diagnostic use); **HUMAN**; **INSULIN** (blood); **SOMATOTROPIN RELEASE INHIBITING HORMONE** (pharmacodynamics); **SOMATOTROPIN** (blood).

Pospichal J

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospichal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

Postolov PM

[LIPID AND GLUCOSE ABSORPTION AFTER VAGOTOMY WITH CONSERVATIVE RESECTION OF THE STOMACH] Postolov PM, Fetisov VA, Missiura NV *Vestn Khir* 114: 29-31, Jan 75 (Rus) *DL/77MAR533
ADULT; **DUODENAL ULCER** (surgery); **DUODENUM** (metabolism); **ENGLISH ABSTRACT**; **FOLLOW-UP STUDIES**; **GASTRECTOMY** (methods); **GLUCOSE** (metabolism); **HUMAN**; **INTESTINAL ABSORPTION**; **LIPIDS** (metabolism); **MALE**; **MIDDLE AGE**; **VAGOTOMY**.

Pouplard A

HUMORAL AUTOIMMUNITY IN DIABETES MELLITUS. Bottazzo GF, Doniach D, Pouplard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 55-64, 1976 (Eng) DL/77MAR420

Prasad U

MALIGNANT EXTERNAL OTITIS. Prasad U *J Laryngol Otol* 90: 963-5, Oct 76 (Eng) DL/77MAR194

AGED; **CARBENICILLIN** (therapeutic use); **CRANIAL NERVES**; **DIABETES MELLITUS** (complications); **FEMALE**; **GENTAMICIN** (therapeutic use); **HUMAN**; **MALE**; **MIDDLE AGE**; **OTITIS EXTERNA** (complications, diagnosis, therapy); **PARALYSIS** (complications); **PERIPHERAL NERVE DISEASES** (etiology); **PSEUDOMONAS INFECTIONS** (complications).

Prasse KW

CLINICAL EXAMINATION OF THE URINE. Duncan JR, Prasse KW *Vet Clin North Am* 6: 647-61, Nov 76 (Eng) DL/77MAR367

Pratt R

CHILDHOOD ANTECEDENTS OF ADULT OBESITY. DO CHUBBY INFANTS BECOME OBESE ADULTS? Charney E, Goodman HC, McBride M, Lyon B, Pratt R *N Engl J Med* 295: 6-9, 1 Jul 76 (Eng) *DL/77MAR522

Prehn S

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE *FEBS Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

Pribylova H

[METABOLISM IN THE NEWBORN INFANTS OF DIABETIC MOTHERS DURING THE 1ST DAYS OF LIFE] Pribylova H *Cesk Pediatr* 31: 529-31, Oct 76 (Cze) DL/77MAR33
ANIMAL; **ENGLISH ABSTRACT**; **FEMALE**; **INFANT, NEWBORN**; **INFANT, NEWBORN, DISEASES** (blood); **LIPIDS** (blood); **MATERNAL-FETAL EXCHANGE**; **OXYGEN CONSUMPTION**; **PREGNANCY IN DIABETES**; **PREGNANCY**; **PYRUVATES** (blood); **TIME FACTORS**.

Price JW

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

Pruett ED

STUDIES IN CONGENITAL GENERALIZED LIPODYSTROPHY. IV. EFFECT OF MUSCULAR EXERCISE ON CARBOHYDRATE AND FAT METABOLISM INCLUDING PLASMA LEVELS OF IRI AND GHG. Oseid S, Pruett ED *Acta Endocrinol (Kbh)* 83: 839-53, Dec 76 (Eng) DL/77MAR402

Pruszczynski M

[COMPARISON OF THE SIZE OF HEPATOCYTE NUCLEI IN DIABETES AND IN SELECTED DIGESTIVE TRACT DISEASES] Danilewicz M, Danilewiczowa M, Mielczarek H, Pruszczynski M, Torzecki Z *Pol Tyg Lek* 31: 1961-2, 15 Nov 76 (Pol) DL/77MAR313

Puech R

NON-SATURABLE-CO-OPERATIVE BINDING OF TOLBUTAMIDE TO ISOLATED ISLETS OF LANGERHANS [PROCEEDINGS]. Alric R, Lignon F, Loubatieres AL, Manteghetti M, Puech R *Br J Pharmacol* 58: 450p, Nov 76 (Eng) DL/77MAR12

[NON-SATURABLE COOPERATIVE BINDING OF TOLBUTAMIDE TO RAT ENDOCRINE PANCREAS. CRITERIA OF SPECIFICITY] Alric R, Manteghetti M, Puech R, Lignon F, Loubatieres A *C R Acad Sci [D] (Paris)* 283: 283-6, 19 Jul 76 (Fre) DL/77MAR36

Pugliese F

[PRELIMINARY OBSERVATIONS ON THE BEHAVIOR OF IMMUNOGLOBULINS IN DIABETICS TREATED BY DIFFERENT

METHODS] Bruno A, Innocenti M, Pasquino M, Pugliese F, Zola P *Minerva Med* 67: 3253-60, 20 Oct 76 (Ita) DL/77MAR280

Pulini M

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459
ACANTHOSIS NIGRICANS (complications, immunology); **ANTINUCLEAR FACTORS** (analysis); **BLOOD SUGAR**; **CARCINOEMBRYONIC ANTIGEN** (analysis); **CASE REPORT**; **DIABETES MELLITUS** (complications); **HUMAN**; **INSULIN RESISTANCE**; **MALE**; **MIDDLE AGE**; **RECEPTORS**; **INSULIN**; **SEX FACTORS**.

Pytel IaA

[SIDE EFFECTS AND COMPLICATIONS OF USE OF HORMONAL CONTRACEPTIVES (LITERATURE SURVEY)] Pytel IaA, Zolotarev II, Tsomyk VG, Datuashvili TD *Vopr Okhr Materin Det* 21: 79-81, Aug 76 (Rus) DL/77MAR380

ADOLESCENCE; **ADULT**; **AFFECTIVE DISTURBANCES** (chemically induced); **CERVIX NEOPLASMS** (chemically induced); **CONTRACEPTIVES, ORAL** (adverse effects); **CONTRACEPTIVES, ORAL, HORMONAL** (adverse effects); **DIABETES MELLITUS** (chemically induced); **ENDOCRINE DISEASES** (chemically induced); **ESTROGENS**; **SYNTHETIC** (adverse effects); **FEMALE**; **HUMAN**; **HYPERTENSION** (chemically induced); **KIDNEY DISEASES** (chemically induced); **LIVER DISEASES** (chemically induced); **MIDDLE AGE**; **THROMBOEMBOLISM** (chemically induced); **UTERINE DISEASES** (chemically induced).

Quellhorst E

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND COLFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL)] Rumpf KW, Quellhorst E, Schele F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

Quick CA

HEARING LOSS IN PATIENTS WITH DIALYSIS AND RENAL TRANSPLANTS. Quick CA *Ann Otol Rhinol Laryngol* 85: 776-90, Nov-Dec 76 (Eng) DL/77MAR462
ADULT; **ANGIOKERATOMA CORPORA**; **DIFFUSUM** (complications); **AUDIOMETRY**; **CASE REPORT**; **DEAFNESS** (chemically induced, etiology); **DIABETES MELLITUS** (complications); **EAR DISEASES** (complications); **FEMALE**; **HEMODIALYSIS** (adverse effects); **HUMAN**; **KIDNEY DISEASES** (complications); **KIDNEY** (transplantation); **LIPODYSTROPHY** (complications); **MINNESOTA**; **POSTOPERATIVE COMPLICATIONS** (poisoning); **PROSPECTIVE STUDIES**; **TRANSPLANTATION, HOMOLOGOUS**; **UNITED STATES GOVERNMENT SUPPORTED**, N.I.H.).

Rabinovitch A

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176
ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); **ANIMAL**; **DOSE-RESPONSE RELATIONSHIP, DRUG**; **GLUCOSE** (administration & dosage, pharmacodynamics); **IN VITRO**; **INSULIN** (secretion); **ISLANDS OF LANGERHANS** (metabolism); **MALE**; **RATS**; **STARVATION** (metabolism); **STIMULATION, CHEMICAL**.

Diabetes Literature—Author Index

Rabinovitch A

Raboch J

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospichal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

Raff SB

INSULIN RESISTANCE AND ACANTHOSIS NIGRICANS. REPORT OF A CASE WITH ANTIBODIES TO INSULIN RECEPTORS. Pulini M, Raff SB, Chase R, Gordon EE *Ann Intern Med* 85: 749-51, Dec 76 (Eng) DL/77MAR459

Ragaiolo M

[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA] Mioli V, Pacchiarotti P, Ragaiolo M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523

Rahlfis V

[THE QUESTION OF ADVERSE EFFECTS OF CLOFIBRATE. EXPERIENCE IN PATIENTS WITH DIABETES MELLITUS] Huser C, Rahlfis V, Mehnert H *Ther Ggw* 115: 1382-95, Aug 76 (Ger) DL/77MAR357

Rai JN

PRODUCTION OF POLYMETHYL-GALACTURONASE AND CELLULOSE AND ITS RELATIONSHIP WITH VIRULENCE IN ISOLATES OF SCLEROTINIA SCLEROTIUM (LIB.) DE BARY. Rai JN, Dhawan S *Indian J Exp Biol* 14: 196-7, Mar 76 (Eng) DL/77MAR154
ANIMAL; CATS; DIABETES MELLITUS (drug therapy); FEMALE; MALE; MICE; PLANT EXTRACTS (toxicity, therapeutic use); PREGNANCY; RABBITS.

Ramahandridona G

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandridona G, Di Campo-Rougerie C, Mahmoud F *Diabete Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

Rames I

[DIABETES MELLITUS AND HYPERTENSION] Rames I *Cas Lek Cesk* 115: 1238-42, 8 Oct 76 (Cze) DL/77MAR29

AGE FACTORS; DIABETIC ANGIOPATHIES (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERTENSION (etiology); MALE; MIDDLE AGE.

Randle PJ

REGULATION OF GLYCOLYSIS AND PYRUVATE OXIDATION IN CARDIAC MUSCLE. Randle PJ *Circ Res* 38: i8-15, May 76 (Eng) *DL/77MAR493

ACETATES (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); GLYCOLYSIS; HEART (drug effects); MYOCARDIUM (metabolism); PHOSPHOFRUCTOKINASE (metabolism); PYRUVATE DEHYDROGENASE COMPLEX (metabolism); PYRUVATES (metabolism).

Rapoport TA

EVIDENCE FOR THE SYNTHESIS OF A PRECURSOR OF CARP PROINSULIN IN A CELL-FREE TRANSLATION SYSTEM. Rapoport TA, Klatt D, Prehn S, Hahn V, Hohne WE *FEBs Lett* 69: 32-6, 15 Oct 76 (Eng) DL/77MAR73

ANIMAL; ANTIGEN-ANTIBODY REACTIONS; CARP; CELL-FREE SYSTEM; GUINEA PIGS (immunology); ISLANDS OF LANGERHANS (metabolism); KINETICS; MOLECULAR WEIGHT; PROINSULIN (biosynthesis); PROTEIN PRECURSORS (biosynthesis); RNA; MESSENGER (metabolism); TRANSLATION, GENETIC.

Rappaport AM

THE MICROCIRCULATORY HEPATIC UNIT. PP. 425-34. Rappaport AM In: Gerok W, Sickinger K, ed. *Drugs and the liver*. Stuttgart, Schattauer, 1975. W3 FR446 1973d. (Eng) *DL/77MAR507

FATS (metabolism); HEMODYNAMICS; HEPATITIS, TOXIC (pathology); HUMAN; LIVER CIRCULATION; LIVER GLYCOGEN (metabolism); LIVER (anatomy & histology); LIVER (metabolism); MICROCIRCULATION; MONOGRAPH (mortality); NADH TETRAZOLIUM REDUCTASE (metabolism); OXYGEN CONSUMPTION; PIGMENTS (metabolism).

Ratchford JM

NONISOTOPIC METHOD FOR ESTIMATING CHOLESTEROLENEMIA IN THE RAT. Phillips WA, Ratchford JM, Schulta JR *Adv Exp Med Biol* 67: 251-265, 1976 (Eng) *DL/77MAR548

Ravid M

IN VITRO SYNTHESIS OF AMYLOID FIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E *Isr J Med Sci* 12: 1137-40, Oct 76 (Eng) DL/77MAR1

Rebuzzi A

[CHANGES IN PLASMA INSULIN AND GROWTH HORMONE AFTER INTRAVENOUS GLUCAGON IN HEPATIC CIRRHOSIS] Ghirlanda G, Manna R, Rebuzzi A, Altomonte L, Greco AV *Minerva Med* 67: 3187-92, 17 Oct 76 (Ita) DL/77MAR275

[BEHAVIOR OF PLASMA/INSULIN, SOMATOTROPIN AND NEFA AFTER INTRAVENOUS ADMINISTRATION OF TOLBUTAMIDE IN HEPATIC CIRRHOSIS] Greco AV, Ghirlanda G, Rebuzzi A, Altomonte L, Manna R *Minerva Med* 67: 3525-32, 10 Nov 76 (Ita) DL/77MAR287

Recant L

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatthana SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

Reddy CM

METABOLIC RESPONSES TO HUMAN GROWTH HORMONE IN CHILDREN WITH CEREBRAL DYSPLASIA. Castells S, Reddy CM, Hashemi S *J Pediatr* 89: 958-60, Dec 76 (Eng) DL/77MAR199

Reding R

[SURGICAL PROBLEMS IN THE TREATMENT OF DIABETICS. PRESENT STATE AND FUTURE PROSPECTS (AUTHORS TRANSL.)] Reding R, Lorenz D *Ann Chir* 30: 811-6, Oct 76 (Fre) DL/77MAR463

ANIMAL; DIABETES MELLITUS (surgery); DIABETIC ANGIOPATHIES (prevention & control); DOGS; ENGLISH ABSTRACT; HUMAN; ISLANDS OF LANGERHANS (transplantation); METHODS; POSTOPERATIVE COMPLICATIONS (prevention & control); TRANSPLANTATION, HOMOLOGOUS.

Reed WD

ABILITY OF EXOGENOUS ALANINE TO LOWER BLOOD BETA-HYDROXYBU-

TYRATE DURING DEVELOPMENT IN RATS. Ozand PT, Tildon JT, Stevenson JH, Reed WD, Cornblath M *Am J Physiol* 230: 1385-8, May 76 (Eng) *DL/77MAR551

Regan TJ

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Oldewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41

Regitz G

[(A1-BETA-ALANINE) INSULIN] Geiger R, Geisen K, Regitz G, Summ HD *Hoppe Seylers Z Physiol Chem* 357: 1267-70, Sep 76 (Ger) DL/77MAR149

Reichenmiller HE

[TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL.)] Luft D, Schubert WR, Reichenmiller HE *Dtsch Med Wochenschr* 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

Reivich M

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

Renold AE

SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF EITHER DUCT-LIGATED PANCREAS OR ISOLATED ISLETS IN STREPTOZOTOCIN DIABETIC MICE. Kramp RC, Cuche R, Renold AE *Endocrinology* 99: 1161-7, Nov 76 (Eng) DL/77MAR56

DECREASED BASAL, NONINSULIN-STIMULATED GLUCOSE UPTAKE AND METABOLISM BY SKELETAL SOLEUS MUSCLE ISOLATED FROM OBESE-HYPERGLYCEMIC (OB/OB) MICE. Cuendet GS, Loten EG, Jeanraud B, Renold AE *J Clin Invest* 58: 1078-88, Nov 76 (Eng) DL/77MAR173

INSULIN RELEASE AND CYCLIC AMP ACCUMULATION IN RESPONSE TO GLUCOSE IN PANCREATIC ISLETS OF FED AND STARVED RATS. Rabinovitch A, Grill V, Renold AE, Cerasi E *J Clin Invest* 58: 1209-16, Nov 76 (Eng) DL/77MAR176

PHOSPHORYLATION REACTIONS IN ISLETS OF LANGERHANS. Muller WA, Amherdt ML, Vachon AC, Renold AE *J Physiol (Paris)* 72: 711-20, Nov 76 (Eng) DL/77MAR203

Rey I

[GYNECOLOGIC DISORDERS IN THE PREVENTION OF JUVENILE DIABETES] Grandguillaume P, Rey I *Soz Praeventivmed* 21: 155-6, Jul-Aug 76 (Fre) DL/77MAR398

Rey-Stocker I

[GYNECOLOGIC DISEASES IN THE DIABETIC WOMAN] Rey-Stocker I, Grandguillaume P *Schweiz Med Wochenschr* 106: 1056-9, 31 Jul 76 (Fre) DL/77MAR346

ABORTION (etiology); ADULT; CONTRACEPTION (methods); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; ENTEROBACTERIACEAE (isolation & purification); ESCHERICHIA COLI (isolation & purification); FEMALE; FRIGIDITY (etiology); GYNECOLOGIC DISEASES (etiology); HUMAN; MYCOSES (microbiology); STREPTOCOCCUS (isolation & purification); UTERINE NEOPLASMS (etiology); VAGINA (microbiology); VAGINITIS (etiology); VULVITIS (etiology).

Reynolds RA

REGULATORY CHARACTERISTICS OF AMINO ACID TRANSPORT IN NEWBORN RAT RENAL CORTEX CELLS. Reynolds RA, Segal S *Biochim Biophys Acta* 426: 513-25, 19 Mar 76 (Eng) *DL/77MAR486
AGING; AMINO ACIDS (metabolism); AMINOISOBUTYRIC ACID (metabolism); ANAEROBOSIS; ANIMAL EXPERIMENTS (analysis); ANIMALS, NEWBORN; BIOLOGICAL TRANSPORT, ACTIVE; CYCLOHEXIMIDE (pharmacodynamics); CYCLOLEUCINE (metabolism); DACTINOMYCIN (pharmacodynamics); DINITROPHENOLS (pharmacodynamics); GLYCINE (metabolism); IN VITRO; KIDNEY CORTEX (drug effects, growth & development, metabolism); KINETICS; OUBAIN (pharmacodynamics); PROLINE (metabolism); PUROMYCIN (pharmacodynamics); RATS; SODIUM (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Reyt F

INSULIN SECRETION BY HUMAN PANCREAS CULTURED FOR ONE YEAR. Hollande E, Giron BJ, Reyt F, Dutrillaux MC *J Physiol (Paris)* 72: 815-32, Nov 76 (Eng) DL/77MAR212

Rezek M

THE ROLE OF INSULIN IN THE GLUCOSTATIC CONTROL OF FOOD INTAKE. Rezek M *Can J Physiol Pharmacol* 54: Oct 76 (Eng) [97] DL/77MAR22
ANIMAL; DOGS; FEEDING BEHAVIOR; GASTROINTESTINAL HORMONES (physiology); GLUCAGON (physiology); GLUCOSE (administration & dosage, physiology); GUINEA PIGS; HUMAN; INSULIN (metabolism, pharmacodynamics, physiology); MICE; MONKEYS; PANCREAS (physiology); RABBITS; RATS; REVIEW.

Ribes G

PHARMACOLOGICAL AGENTS AND ACUTE EXPERIMENTAL HYPERLAEMIA IN THE DOG [PROCEEDINGS]. Loubatieres AL, Ribes G, Valette G *Br J Pharmacol* 58: 429p, Nov 76 (Eng) DL/77MAR11

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

Ricciardi S

[USE OF GLUCAGON IN THE TREATMENT OF SEVERE CONTRACTILE INSUFFICIENCY OF THE MYOCARDIUM] Bertolazzi R, Ricciardi S, Marengo G *Minerva Med* 67: 3519-24, 10 Nov 76 (Ita) DL/77MAR286

Rillema JA

ACTION OF PROLACTIN ON ORNITHINE DECARBOXYLASE ACTIVITY IN MAMMARY GLAND EXPLANTS OF MICE. Rillema JA *Endocr Res Commun* 3: 297-305, 1976 (Eng) DL/77MAR55

ANIMAL; CARBOXY-LYASES (metabolism); ENZYME ACTIVATION (drug effects); FEMALE; HYDROCORTISONE (pharmacodynamics); IN VITRO; INSULIN (pharmacodynamics); LACTATION; MAMMAE (drug effects, enzymology); MICE; ORNITHINE DECARBOXYLASE (metabolism); PREGNANCY; PROLACTIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Risse S

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3.

RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke B, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

Risteli J

INTRACELLULAR ENZYMES OF COLLAGEN BIOSYNTHESIS IN RAT KIDNEY IN STREPTOZOTOCIN DIABETES. Risteli J, Koivisto VA, Akerblom HK, Kivirikko KI *Diabetes* 25: 1066-70, Nov 76 (Eng) DL/77MAR121

ANIMAL; BODY WEIGHT; COLLAGEN (biosynthesis); DIABETES MELLITUS (chemically induced, metabolism); GALACTOSYLTRANSFERASES (metabolism); GLUCOSYLTRANSFERASES (metabolism); HEXOSYLTRANSFERASES (metabolism); HYDROXYLASES (metabolism); KIDNEY (anatomy & histology, enzymology); LYSINE HYDROXYLASE (metabolism); MALE; PROLINE HYDROXYLASE (metabolism); RATS; STREPTOZOTOCIN; TIME FACTORS; TRANSLATION, GENETIC.

Rivas C

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijk B, Pena F, Bentolilla A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng) DL/77MAR433

Rizzi G

[EFFECTS OF SOMATOSTATIN OF PLASMA LEVELS OF GLUCOSE, INSULIN AND GROWTH HORMONE IN ACROMEGALY] Porzio G, Massara F, Camanni F, Rizzi G, Molinatti GM *Minerva Med* 67: 3241-2, 20 Oct 76 (Ita) DL/77MAR277

Roberman NB

[METHOD OF DETERMINING SUGAR IN THE BLOOD] Roberman NB *Probl Endokrinol (Mosk)* 22: 53-5, 1976 (Rus) *DL/77MAR524
BLOOD SUGAR (analysis); ENGLISH ABSTRACT; FERROCYNANIDES (diagnostic use); HUMAN; INDIGO CARMINE (diagnostic use).

Robertson RP

STRESS-INDUCED INHIBITION OF TRIGLYCERIDE SECRETION IN VIVO SAND RATS (PSAMMOMYS OBESUS). Robertson RP, Smith PH *Metabolism* 25: 1583-90, Dec 76 (Eng) DL/77MAR254

ANIMAL; BLOOD SUGAR (metabolism); EXERTION; FATTY ACIDS, NONESTERIFIED (blood); GLYCERIN (blood); INSULIN (blood); OBESITY (physiopathology); RODENTS (physiology); SECRETORY RATE; STRESS (physiopathology); TRIGLYCERIDES (blood, secretion); TRITONS (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Rochman H

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

Rodoman VE

[DIAGNOSIS OF CHRONIC PYELONEPHRITIS IN PREGNANT WOMEN WITH DIABETES MELLITUS] Vasilieva ZV, Vtorova VG, Rodoman VE *Vopr Okhr Materin Det* 21: 79-81, Apr 76 (Rus) DL/77MAR374

Roelfzema H

ABSENCE OF THE SORBITOL PATHWAY IN EPIDERMIS. Roelfzema H, van den Hurk JJ, Mier PD *Br J Dermatol* 94: 577-8, May 76 (Eng) *DL/77MAR478

ALCOHOL OXIDOREDUCTASES (analysis); ALDOSE REDUCTASE (analysis); ANIMAL EXPERIMENTS (analysis); GUINEA PIGS; SKIN (enzymology, metabolism); SORBITOL (metabolism).

Rohrbach R

[TRANSVENOUS KIDNEY PUNCTURE. NEW PROCEDURE FOR WITHDRAWAL OF KIDNEY TISSUE] Mathias K, Rohrbach R, Strecker EP, Kaufmann G *Fortschr Med* 94: 1700-4, 21 Oct 76 (Ger) DL/77MAR143

Romagnoli GF

[IMPROVEMENT OF RENAL FUNCTION IN CHRONIC KIDNEY DISEASES UNDER PERIODICAL HEMODIALYSIS TREATMENT] Romagnoli GF, Bertoli M, Cerutti M, Di Landro D, Naso A, Filippi A, Huber W *Minerva Nefrol* 23: 44-52, Jan-Feb 76 (Ita) DL/77MAR290

ADOLESCENCE; ADULT; AGED; DIABETIC NEPHROPATHIES (therapy); ENGLISH ABSTRACT; FEMALE; GLOMERULONEPHRITIS (therapy); HEMODIALYSIS; HUMAN; KIDNEY FAILURE, CHRONIC (therapy); MALE; MIDDLE AGE; PYELONEPHRITIS (therapy); TIME FACTORS; UREMIA (therapy).

Romano M

PANCREATIC ISLET-CELL AUTOIMMUNITY [LETTER]. Del Prete GF, Betterle C, Bersani G, Romano M, Tiengo A *Lancet* 2: 1090, 13 Nov 76 (Eng) DL/77MAR239

Romon M

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND DIABETES (AUTHORS TRANSL)] Jaillard J, Sezille G, Fruchart JC, Dewailly P, Romon M *Diabete Metab* 2: 5-9, Mar 76 (Fre) DL/77MAR113

Root MA

THE IMMUNOGENICITY OF INSULIN PREPARATIONS. Chance RE, Root MA, Galoway JA *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 185-98, 1976 (Eng) [38] DL/77MAR410

Rosenblit PD

EFFECT OF STREPTOZOTOCIN DIABETES ON SELECTED ENZYMIC ACTIVITIES IN RAT URINE. Kuwahara MD, Lyons SA, Rosenblit PD, Metzger RP *Proc Soc Exp Biol Med* 153: 305-8, Nov 76 (Eng) DL/77MAR325

Rosenbloom AL

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JL, Rosenbloom AL, Grgic A, Weber FT *Am J Dis Child* 130: 1324-7, Dec 76 (Eng) DL/77MAR443

Rosenzweig SA

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

Rosselin G

REGULATION BY GLUCOSE AND CYCLIC NUCLEOTIDES OF THE GLUCAGON AND INSULIN RELEASE INDUCED BY AMINO ACIDS. Jarrousse C, Rosselin G *Diabete Metab* 1: 135-42, Sep 75 (Eng) DL/77MAR95

Diabetes Literature—Author Index

Roth J

Roth J

FLUCTUATIONS IN THE AFFINITY AND CONCENTRATION OF INSULIN RECEPTORS ON CIRCULATING MONOCYTES OF OBESE PATIENTS: EFFECTS OF STARVATION, REFEEDING, AND DIETING. Bar RS, Gorden P, Roth J, Kahn CR, De Meyts P *J Clin Invest* 58: 1123-35, Nov 76 (Eng) DL/77MAR174

CHARACTERIZATION OF ANTIBODIES TO THE INSULIN RECEPTOR: A CAUSE OF INSULIN-RESISTANT DIABETES IN MAN. Flier JS, Kahn CR, Jarrett DB, Roth J *J Clin Invest* 58: 1442-9, Dec 76 (Eng) DL/77MAR180

DIRECT METHOD FOR DETECTION AND CHARACTERIZATION OF CELL SURFACE RECEPTORS FOR INSULIN BY MEANS OF 125I-LABELED AUTOANTIBODIES AGAINST THE INSULIN RECEPTOR. Jarrett DB, Roth J, Kahn CR, Flier JS *Proc Natl Acad Sci USA* 73: 4115-9, Nov 76 (Eng) DL/77MAR322

Roughan PG

IS PHOSPHOLIPASE D REALLY AN ENZYME A COMPARISON OF IN SITU AND IN VITRO ACTIVITIES. Roughan PG, Slack CR *Biochim Biophys Acta* 431: 86-95, 22 Apr 76 (Eng) *DL/77MAR487

ALCOHOL, METHYL (pharmacodynamics); CHLOROFORM (pharmacodynamics); CHLOROPLASTS (drug effects, metabolism); COMPARATIVE STUDY; ETHER, ETHYL (pharmacodynamics); FATTY ACIDS (metabolism); IN VITRO; MITOCHONDRIA (drug effects, metabolism); PHOSPHOLIPASE (metabolism); PHOSPHOLIPIDS (metabolism); PLANTS (drug effects, metabolism); SODIUM DODECYL SULFATE (pharmacodynamics).

Rousselet A

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. I. HUMAN RED BLOOD CELLS. Rousselet A, Guthmann C, Matricon J, Bienvenue A, Devaux PF *Biochim Biophys Acta* 426: 357-71, 19 Mar 76 (Eng) *DL/77MAR484

CELL MEMBRANE (ultrastructure); ELECTRON SPIN RESONANCE; ERYTHROCYTES (ultrastructure); HUMAN; KINETICS; MICROSCOPY, ELECTRON, SCANNING; MOLECULAR CONFORMATION; PHOSPHATIDYL CHOLINE (blood); PHOSPHOLIPIDS (blood); SPIN LABELS.

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignais PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

ANIMAL EXPERIMENTS (analysis); BINDING SITES; BIOLOGICAL TRANSPORT; DIFFUSION; ELECTRON SPIN RESONANCE; KINETICS; LECITHINS (metabolism); MEMBRANES (metabolism, ultrastructure); MITOCHONDRIA, LIVER (metabolism, ultrastructure); PHOSPHATIDYL CHOLINE (metabolism); PHOSPHOLIPIDS (metabolism); PROTEIN BINDING; PROTEINS (metabolism); RATS; SPIN LABELS.

Rozengurt E

STIMULATION OF DNA SYNTHESIS AND CELL DIVISION IN A CHEMICALLY DEFINED MEDIUM: EFFECT OF EPIDERMAL GROWTH FACTOR, INSULIN AND VITAMIN B12 ON RESTING CULTURES OF 3T6 CELLS. Mierzejewski K, Rozengurt E *Biochem Biophys Res Commun* 73: 271-8, 22 Nov 76 (Eng) DL/77MAR476

Rubenstein A

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

Rubenstein AH

PATHOGENESIS AND CHARACTERIZATION OF HYPERGLUCAGONEMIA IN THE UREMIC RAT. Emmanouel DS, Jaspán JB, Kuku SF, Rubenstein AH, Katz AI, Huen AH *J Clin Invest* 58: 1266-72, Nov 76 (Eng) DL/77MAR177

Ruch W

ALPHA ADRENERGIC CONTROL OF GROWTH HORMONE IN ADULT MALE RATS. Ruch W, Jaton AL, Bucher B, Marbach P, Doepfner W *Experientia* 32: 529-31, 15 Apr 76 (Eng) *DL/77MAR501

ANIMAL EXPERIMENTS (analysis); CLONIDINE (administration & dosage, pharmacodynamics); INJECTIONS, INTRAVENOUS; INJECTIONS, INTRAVENTRICULAR; MALE; PHENTOLAMINE (pharmacodynamics); PHENYLEPHRINE (pharmacodynamics); PITUITARY GLAND (drug effects); PITUITARY GLAND, ANTERIOR (drug effects); PITUITARY GLAND, ANTERIOR (secretion); RATS; SOMATOTROPIN (blood, secretion).

Rudin VP

[WAYS OF IMPROVING THE DISPENSARIZATION AND SPECIALIZED TREATMENT OF PATIENTS WITH PULMONARY TUBERCULOSIS AND CONCOMITANT DIABETES MELLITUS] Rudin VP, Chuprina MF, Kovalchuk FT *Vrach Delo* 46-7, Jul 76 (Rus) DL/77MAR385

ADULT; AMBULATORY CARE; DIABETES MELLITUS (complications); FEMALE; HUMAN; MALE; MIDDLE AGE; PERSONAL HEALTH SERVICES; TUBERCULOSIS, PULMONARY (complications); UKRAINE.

Ruitton A

[SPECIFIC RADIOIMMUNOASSAY OF PANCREATIC GLUCAGON. RESULTS IN NEWBORN AND IN CHILD (AUTHORS TRANSL.)] Ruitton A, Frederich F *Diabete Metab* 1: 143-50, Sep 75 (Fre) DL/77MAR96

ANIMAL; CHILD, PRESCHOOL; DIABETES MELLITUS, JUVENILE (blood); ENGLISH ABSTRACT; FEMALE; GLUCAGON (analysis, blood); HUMAN; IMMUNE SERUMS; MATHEMATICS; PREGNANCY; RADIOIMMUNOASSAY (methods).

Ruix JO

TRANSPLANTATION OF THE PANCREAS. Liliehei RC, Ruix JO, Aquino C, Goetz F *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 303-20, 1976 (Eng) DL/77MAR419

Rumpf KW

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND COLFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL.)] Rumpf KW, Quellhroest E, Scheler F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

ADULT; CASE REPORT; CLOFIBRATE (adverse effects, therapeutic use); DIABETES MELLITUS (complications); DIABETES MELLITUS, JUVENILE (complications); DIABETIC NEPHROPATHIES (complications); DIABETIC RETINOPATHY (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERLIPIDEMIA (drug therapy); HYPERTENSION (complications); HYPOTHYROIDISM (complications); KIDNEY DISEASES (complications); MUSCULAR DISEASES (chemically induced).

Ruszkowski J

[SOURCE DOCUMENTS FOR ELECTRONIC DATA PROCESSING IN SELECTED EYE DISEASES] Majewska K, Czechowicz-Janicka K, Janik J, Semeniuk H, Ruszkowski J, Doroszewski *J Klin Oczna* 46: 999-1003, Sep 76 (Pol) DL/77MAR235

Ruth RC

THE SUBUNIT STRUCTURE OF GLYCOLYTIC ENZYMES. Ruth RC, Wold F *Comp Biochem Physiol [B]* 54: 1-6, 1976 (Eng) *DL/77MAR497

ALCOHOL OXIDOREDUCTASES; ANIMAL EXPERIMENTS (analysis); FRUCTOSEBIPHOSPHATE ALDOLASE; GLUCOSEPHOSPHATE ISOMERASE; GLYCERALDEHYDEPHOSPHATE DEHYDROGENASE; GLYCOGEN PHOSPHORYLASE; GLYCOLYSIS; HEXOKINASE; INFANT, NEWBORN; LACTATE DEHYDROGENASE; MACROMOLECULAR SYSTEMS; MOLECULAR WEIGHT; PHOSPHOFRUCTOKINASE; PHOSPHOGLYCERATE KINASE; PHOSPHOGLYCEROMUTASE; PHOSPHOPYRUVATE HYDRATASE; PYRUVATE KINASE; SALMON; TRIOSEPHOSPHATE ISOMERASE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Ryan KR

ESTROGENS AND ATHEROSCLEROSIS. Ryan KR *Clin Obstet Gynecol* 19: 805-15, Dec 76 (Eng) DL/77MAR43

AGE FACTORS; ARTERIOSCLEROSIS (occurrence); ATHEROSCLEROSIS (etiology, occurrence); CHOLESTEROL (blood); CONTRACEPTIVES, ORAL, HORMONAL (adverse effects); CORONARY DISEASE (etiology); DIABETES MELLITUS (complications); ESTROGENS (pharmacodynamics); FEMALE; HUMAN; HYPERTENSION (complications); LIPOPROTEINS (blood); MALE; RISK; SEX FACTORS; TRIGLYCERIDES (blood); UNITED STATES.

Ryder L

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

Rygaard J

RESTITUTION OF STREPTOZOTOCIN INDUCED DIABETES MELLITUS IN NUDE MICE WITH PANCREATIC GRAFTS FROM THE RAT. Buschard K, Rygaard J *Acta Pathol Microbiol Scand [C]* 84: 221-6, Jun 76 (Eng) DL/77MAR431

Ryu RJ

DIABETIC OPHTHALMOPLEGIA. Sung SM, Ryu RJ, Chen RC *J Formosan Med Assoc* 75: 392-402, Jul 76 (Eng) DL/77MAR197

Sachan SA

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

Saggerson ED

INTERACTING ACTIONS OF INSULIN AND UNESTERIFIED FATTY ACIDS ON LIPOGENIC ENZYMES IN RAT ADIPOCYTES. Sooranna SR, Saggerson ED *FEBS Lett* 69: 144-8, 15 Oct 76 (Eng) DL/77MAR72

Sahn SA

TUBERCULOSIS AFTER CORTICOSTEROID THERAPY. Sahn SA, Lakshminarayan S *Br J Dis Chest* 70: 195-205, Jul 76 (Eng) DL/77MAR5
ADRENAL CORTEX HORMONES (administration & dosage, adverse effects);
ADULT; AGED; AIRWAY OBSTRUCTION (complications); **ARTHRITIS, RHEUMATOID** (complications); **CASE REPORT; DERMATITIS EXFOLIATIVA** (complications); **DIABETES MELLITUS; DRUG ADMINISTRATION SCHEDULE; ECZEMA** (complications); **FEMALE; HUMAN; IMMUNOSUPPRESSION; ISONIAZID** (administration & dosage); **KIDNEY** (transplantation); **LEUKEMIA, LYMPHOCYTIC** (complications); **LUPUS ERYTHEMATOSUS, SYSTEMIC** (complications); **MALE; MIDDLE AGE; POLYNEURITIS** (complications); **RECURRENCE; TRANSPLANTATION, ALLOGENEIC; TUBERCULOSIS** (chemically induced, complications).

Sakaki S

CEREBRAL UPTAKE OF GLUCOSE AND OXYGEN IN THE CAT BRAIN AFTER PROLONGED ISCHEMIA. Hossmann KA, Sakaki S, Kimoto K *Stroke* 7: 301-5, May-Jun 76 (Eng) *DL/77MAR531

Saltin B

THE NATURE OF THE TRAINING RESPONSE; PERIPHERAL AND CENTRAL ADAPTATIONS OF ONE-LEGGED EXERCISE. Saltin B, Nazar K, Costill DL, Stein E, Jansson E, Essen B, Gollnick D *Acta Physiol Scand* 96: 289-305, Mar 76 (Eng) *DL/77MAR545
ADAPTATION, PHYSIOLOGICAL; ADENOSINE TRIPHOSPHATASE (metabolism); **ADULT; BLOOD SUGAR** (analysis); **EXERCITION; GLYCOGEN** (metabolism); **HEART RATE; HUMAN; LACTATES** (blood); **LEG; MALE; MUSCLES** (enzymology, metabolism); **OXYGEN CONSUMPTION; SUCCINATE DEHYDROGENASE** (metabolism); **TIME FACTORS.**

Salvador M

[MYOCARDIAL INFARCT UNDER AGE 41. EPIDEMIOLOGY, FACTORIAL SURVEY, NATURAL HISTORY, AND CORONAROGRAPHIC STUDY] Salvador M, Bizouati G, Marco J *Coeur Med Interne* 15: 149-58, Apr-Jun 76 (Fre) DL/77MAR44
ADOLESCENCE; ADULT; AGE FACTORS; BLOOD PRESSURE; BODY WEIGHT; CARBOHYDRATES (metabolism); **CHOLESTEROL** (blood); **CORONARY DISEASE** (familial & genetic); **DIABETES MELLITUS** (familial & genetic); **ENGLISH ABSTRACT; FEMALE; FRANCE; HUMAN; ISRAEL; MALE; MYOCARDIAL INFARCT** (occurrence); **RISK; SMOKING; STRESS, PSYCHOLOGICAL.**

Sanchez-Medina F

LACTIC ACIDOSIS AND RENAL PHOSPHOENOLPYRUVATE CARBOXYKINASE ACTIVITY DURING EXERCISE. Sanchez-Medina F, Mayor F *Biochem Med* 14: 355-67, Dec 75 (Eng) *DL/77MAR557
ACIDOSIS (metabolism); **ANIMAL EXPERIMENTS** (analysis); **BICARBONATES** (blood, pharmacodynamics); **BLOOD SUGAR** (metabolism); **BLOOD; CARBON DIOXIDE** (blood); **CYCLOHEXIMIDE** (pharmacodynamics); **DACTINOMYCIN** (pharmacodynamics); **EXERCITION; FEMALE; GLYCOGENOSIS; HYDROCORTISONE** (pharmacodynamics); **KIDNEY** (drug effects, enzymology); **LACTATES** (metabolism); **MALE; OXALOACETATES** (biosynthesis); **PHILIPPINES** (physiology); **PHOSPHOENOLPYRUVATE CARBOXYKINASES** (metabolism); **RATS; SWIMMING.**

Sanders M

THE EFFECT OF AN ANORECTIC AGENT (MAZINDOL) ON CONTROL OF OBESITY. Sanders M, Bredahl H *Med J Aust* 2: 576-7, 9 Oct 76 (Eng) DL/77MAR261
ADULT; AGED; DRUG THERAPY, COMBINATION; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use); **INDOLES** (therapeutic use); **INSULIN** (therapeutic use); **MAZINDOL** (adverse effects, therapeutic use); **MIDDLE AGE; OBESITY IN DIABETES** (drug therapy); **PLACEBOS.**

Sankaran H

EFFECT OF DILUTION ON IMMUNOREACTIVE INSULIN ACTIVITY OF HUMAN PLASMA. Sankaran H, Harrington MG Jr *J Med Sci* 145: 359-68, Nov 76 (Eng) DL/77MAR164
ANIMAL; ANTIGENS; HUMAN; INDICATOR DILUTION TECHNIQUE; INSULIN (blood); **RADIOIMMUNOASSAY.**

Sann L

[METABOLIC ACTIVITY OF THE SMALL-FOUR-DATE NEWBORN INFANT] Sann L *Pediatrics* 31: 309-13, Apr 76 (Fre) [43] DL/77MAR308
AMINO ACIDS (blood); **BLOOD SUGAR** (analysis); **CATECHOLAMINES** (urine); **ENERGY METABOLISM; GLUCAGON** (blood); **GLUCONEOGENESIS; GLYCOLYSIS; HUMAN; HYDROCORTISONE** (urine); **INFANT; INFANT, LOW BIRTH WEIGHT; INFANT, SMALL FOR GESTATIONAL AGE; INSULIN** (blood); **KETONE BODIES** (blood); **LACTATES** (blood); **LIPIDS** (blood, metabolism); **LIVER GLYCOGEN** (metabolism); **METABOLISM; PYRUVATES** (blood); **REVIEW.**

Sanna S

[THERAPEUTIC ACTION OF GLUCAGON ON PATHOLOGICAL STATES OF THE MYOCARDIUM, ESPECIALLY ON SPECIFIC CONDUCTION TISSUE DISORDERS] Sanna S, Leo P, Netter R *Boll Soc Ital Cardiol* 20: 1233-49, 1975 (Ita) DL/77MAR22
ADULT; AGED; FEMALE; GLUCAGON (therapeutic use); **HEART BLOCK** (drug therapy); **HEART CONDUCTION SYSTEM** (drug effects); **HEART FAILURE, CONGESTIVE** (drug therapy); **HUMAN; MALE; MIDDLE AGE; MYOCARDIAL INFARCT** (drug therapy).

Sano T

[DETERMINATION OF SERUM GLUCOSE AND INTERPRETATION OF GLUCOSE TOLERANCE TEST] Sano T, Abe M *Jpn J Clin Med* 34 suppl: 1874-88, 1976 (Jpn) DL/77MAR225
ADULT; AGED; BLOOD SUGAR (analysis); **FEMALE; GLUCOSE TOLERANCE TEST** (standards); **HUMAN; MALE; MIDDLE AGE.**

Sarantakis D

A NOVEL CYCLIC UNDERCAPEPTIDE, WY-40,770, WITH PROLONGED GROWTH HORMONE RELEASE INHIBITING ACTIVITY. Sarantakis D, Teichman J, Lien EL, Fenichel RL *Biochem Biophys Res Commun* 73: 336-42, 22 Nov 76 (Eng) DL/77MAR477
AMINO ACIDS (analysis); **ANIMAL; BIOLOGICAL ASSAY; GLUCAGON** (blood); **INSULIN** (blood); **PEPTIDES, CYCLIC** (chemical synthesis, pharmacodynamics); **RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE** (analogs & derivatives); **SOMATOTROPIN** (blood).

Saroff J

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutmer RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526

Sartiano GP

NEPHROTOXIC AND CYTOPROLIFERATIVE EFFECTS OF STREPTOZOTOCIN: REPORT OF A PATIENT WITH MULTIPLE HORMONE-SECRETING ISLET CELL CARCINOMA. Myerowitz RL, Sartiano GP, Cavallo T *Cancer* 38: 1550-5, Oct 76 (Eng) DL/77MAR27

Satterfield RG

ISOLATED ACTH DEFICIENCY AND PREGNANCY. Satterfield RG, Williamson HO, Facog *Obstet Gynecol* 48: 693-6, Dec 76 (Eng) DL/77MAR298
ADULT; AMENORRHEA (drug therapy); **CASE REPORT; CORTICOTROPIN** (deficiency); **FEMALE; HUMAN; HYPOGLYCEMIA** (drug therapy, etiology); **INFANT, NEWBORN; PREDNISOLONE** (therapeutic use); **PREGNANCY COMPLICATIONS; PREGNANCY COMPLICATIONS** (drug therapy); **PREGNANCY.**

Saubert H

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Saubert H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

Sauer H

[DIET THERAPY OF DIABETES MELLITUS (WITHOUT REFERENCE TO JUVENILE DIABETES)] Sauer H, Nassauer L *Internist (Berlin)* 17: 502-10, Oct 76 (Ger) [48] DL/77MAR163
ADULT; ALCOHOL, ETHYL (administration & dosage); **DIABETES MELLITUS** (complications, diet therapy); **DIABETIC DIET; DIETARY CARBOHYDRATES** (administration & dosage); **DIETARY FATS** (administration & dosage); **DIETARY PROTEINS** (administration & dosage); **HUMAN; HYPERCHOLESTEREMIA** (complications); **HYPERLIPIDEMIA** (complications); **LIPOPROTEINS, LDL** (blood); **LIPOPROTEINS, VLDL** (blood); **OBESITY IN DIABETES** (drug therapy); **REVIEW.**

Saunders RN

ASSESSMENT OF DIABETOGENIC DRUG ACTIVITY IN THE RAT: DIPHENYLHYDANTOIN. Mackerer CR, Saunders RN, Haettinger JR *J Toxicol Environ Health* 2: 139-51, Sep 76 (Eng) DL/77MAR217

Sava P

[ASSOCIATION OF LANGERHANS HYPOGLYCEMIC ADENOMA AND HUNTINGTON CHOREA. 2 CASES (LETTER)] Charlin A, Bertaud M, Gillet M, Camelot G, Sava P, Narboni G, Cloche P *Nouv Presse Med* 5: 2810, 4 Dec 76 (Fre) DL/77MAR311

Savchenko TN

[CARBOHYDRATE METABOLISM IN CHILDREN BORN TO WOMEN WITH DIABETES MELLITUS] Vtorova VG, Savchenko TN, Loseva IV, Vishnevskii FE *Vopr Okhr Materin Det* 21: 9-12, Feb 76 (Rus) DL/77MAR372

Savouret JF

CHARACTERIZATION OF PHENFORMIN AND METABOLITES IN PLASMA. Heuclin C, Pene F, Savouret JF, Assan R *Diabete Metab* 1: 234-40, Dec 75 (Eng) DL/77MAR105

Sawh PC

THE PERFUSED ISOLATED LEFT ATRIUM: A PREPARATION FOR STUDIES ON SUGAR TRANSPORT IN THE MYOCARDIUM. Sawh PC, Bihler I *Can J Physiol Pharmacol* 54: 708-13, Oct 76 (Eng) DL/77MAR24

Sayed MM

ANIMAL; CARBOHYDRATES (metabolism); FEMALE; IN VITRO; INSULIN (metabolism); MALE; METHYLGLUCOSIDES (metabolism); MYOCARDIUM (metabolism); RATS; TIME FACTORS; XYLOSE (metabolism).

EFFECT OF ADRENALINE ON SUGAR TRANSPORT IN THE PERFUSED LEFT ATRIUM. Bihler I, Sawh PC *Can J Physiol Pharmacol* 54: 714-8, Oct 76 (Eng) DL/77MAR25

Sayed MM

INSULIN RESISTANCE AND ITS REVERSAL BY IN VIVO INFUSION OF ATP IN HERMORRHAGIC SHOCK. Chaudry IH, Sayed MM, Baue AE *Can J Physiol Pharmacol* 54: 736-41, Oct 76 (Eng) DL/77MAR26

Scandellari C

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabete Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

Scardapane R

[URINARY EXCRETION OF CATECHOLAMINES IN OBSE SUBJECTS AND IN DIABETICS (AUTHORS TRANSL.)] Giorgino R, Nardelli GM, Scardapane R *Diabete Metab* 2: 11-3, Mar 76 (Fre) DL/77MAR108

Scarlett JA

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

ASCORBIC ACID (blood, pharmacodynamics); BLOOD SUGAR (metabolism); CARBOHYDRATES (metabolism); FEMALE; GLUCAGON (blood); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; OBESITY (metabolism); SOMATOTROPIN (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Scarpello JH

SMALL INTESTINAL TRANSIT IN DIABETICS. Scarpello JH, Greaves M, Sladen GE *Br Med J* 2: 1225-6, 20 Nov 76 (Eng) DL/77MAR20

AUTONOMIC NERVOUS SYSTEM (physiopathology); DIABETES MELLITUS (complications); GASTROINTESTINAL MOTILITY; HUMAN; HYDROGEN (analysis); INTESTINE, SMALL (physiopathology); LACTULOSE (metabolism); MIDDLE AGE; TIME FACTORS.

Schaller K

[INFLUENCE OF HEPARIN ON THE RADIOIMMUNOLOGIC ASSAY OF INSULIN] Schaller K, Harmeyer J, Partale V *Dtsch Tierarztl Wochenschr* 83: 436-8, 5 Oct 76 (Ger) DL/77MAR54

ANIMAL; ANTIBODIES (analysis); ANTIGENS; CATTLE; ENGLISH ABSTRACT; HEPARIN (blood); INSULIN (blood); RADIOIMMUNOASSAY; SHEEP.

Schally AV

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatnaga SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

Scharowski KR

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL.)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G,

Diabetes Literature—Author Index

Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

Scharrer E

EFFECTS OF ALLOXAN INDUCED DIABETES ON THE FEEDING PATTERNS OF RATS. Thomas DW, Scharrer E, Mayer J *J Physiol Behav* 17: 345-9, Aug 76 (Eng) DL/77MAR329

Schatz H

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabete Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

ADOLESCENCE; BLOOD SUGAR (analysis); CHILD; CHILD, PRESCHOOL; CHOLESTEROL (blood); DIABETES MELLITUS, JUVENILE (drug therapy); DOSE-RESPONSE RELATIONSHIP, DRUG; DRUG THERAPY, COMBINATION; HUMAN; INSULIN ANTIBODIES (analysis); INSULIN (administration & dosage); INSULIN (therapeutic use); METFORMIN (therapeutic use); SOMATOTROPIN (blood); TRIGLYCERIDES (blood).

Scheler F

[DIABETIC NEPHROPATHY, HYPOTHYROIDISM AND COLFIBRATE-INDUCED MYOPATHY (AUTHORS TRANSL.)] Rumpf KW, Quellhroest E, Scheler F *Med Klin* 71: 2023-7, 12 Nov 76 (Ger) DL/77MAR263

Schelling JL

[DRUG INTERACTIONS AND SIDE EFFECTS] Schelling JL *Schweiz Med Wochenschr* 106: 905-8, 3 Jul 76 (Fre) DL/77MAR338

ADRENAL CORTIX HORMONES (pharmacodynamics); ALCOHOL, ETHYL (pharmacodynamics); ANTIBIOTICS (pharmacodynamics); ANTICOAGULANTS (pharmacodynamics); DIURETICS (pharmacodynamics); DRUG INTERACTIONS; ENGLISH ABSTRACT; HUMAN; HYPOGLYCEMIC AGENTS (pharmacodynamics).

Schimpler W

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL.)] Schimpler W, Schuderer A, Kurz M *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

BODY WEIGHT; COMPARATIVE STUDY; DIABETES MELLITUS (prevention & control); DIET; DIETARY CARBOHYDRATES; ENGLISH ABSTRACT; FEMALE; FOLLOW-UP STUDIES; GLUCOSE TOLERANCE TEST; GLUCOSE (metabolism); HUMAN; LONG TERM CARE; MALE; MIDDLE AGE; OBESITY (diet therapy, metabolism); PREDIABETIC STATE (diet therapy, metabolism).

Schoffling K

[GLIUXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL.)] Happ J, Beyer J, Ulreich F, Schoffling K, Krause U, Fronlich A *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

Scholz S

HLA HAPLOTYPES AND GLUCOSE TOLERANCE IN FAMILIES OF PATIENTS WITH JUVENILE-ONSET DIABETES MELLITUS [LETTER]. Landgraf R, Landgraf-Leurs MM, Lander T, Scholz S, Kuntz B, Albert ED *Lancet* 2: 1084-5, 13 Nov 76 (Eng) DL/77MAR237

Schotz MC

HYDROLYSIS OF TRI- AND MONOACYLGLYCEROL BY LIPOPROTEIN LIPASE: EVIDENCE FOR A COMMON ACTIVE SITE. Twu JS, Nilsson-Ehle P, Schotz MC *Biochemistry* 15: 1904-9, 4 May 76 (Eng) *DL/77MAR482

Schubert R

[CHRONIC GERIATRIC PATIENT IN THE HOSPITAL] Schubert R, Fusgen I *Fortschr Med* 94: 1651-7, 14 Oct 76 (Ger) DL/77MAR142

AGE FACTORS; AGED; ARTERIOSCLEROSIS (rehabilitation); CHRONIC DISEASE; COSTS AND COST ANALYSIS; DIABETES MELLITUS (rehabilitation); ENGLISH ABSTRACT; FEMALE; HEART DISEASES (rehabilitation); HOSPITALIZATION; HUMAN; LENGTH OF STAY; MALE; MIDDLE AGE; NEOPLASMS (rehabilitation); PHYSICAL THERAPY; RESPIRATORY INSUFFICIENCY (rehabilitation); SEX FACTORS.

Schubert WR

[TREATMENT OF DIABETIC COMA AND PRECOMA WITH CONTINUOUS LOW-DOSE INSULIN INFUSIONS (AUTHORS TRANSL.)] Luft D, Schubert WR, Reichenmiller HE *Dtsch Med Wochenschr* 101: 1760-5, 26 Nov 76 (Ger) DL/77MAR52

Schuderer A

[WEIGHT REDUCTION AND SUGAR DEPRIVATION IN GLUCOSE TOLERANCE DISTURBANCE. A TWO-YEAR STUDY OF 131 NORMAL AND OVERWEIGHT SUBJECTS (AUTHORS TRANSL.)] Schimpler W, Schuderer A, Kurz M *Munch Med Wochenschr* 118: 1481-4, 12 Nov 76 (Ger) DL/77MAR265

Schukowski H

[SPORTS IN DIABETIC CHILDREN AND ADOLESCENTS IN THE GERMAN DEMOCRATIC REPUBLIC] Ludtke E, Haubenreiser H, Schukowski H *Aerztl Jugendkd* 67: 273-9, Oct 76 (Ger) DL/77MAR438

Schulke H

[BEHAVIOR OF CERTAIN PARAMETERS OF LIPID AND ENERGY METABOLISM. 3. RELATIONSHIPS BETWEEN CYCLIC 3,5-ADENOSINE MONOPHOSPHATE AND ACETYL COENZYME A IN LIVER OF GROWING RATS DEDUCED FROM MODEL EXPERIMENTS WITH DIETS DIFFERING IN FAT CONTENT] Dargel D, Schulke H, Risse S *Nahrung* 20: 823-9, 1976 (Ger) DL/77MAR271

Schultz JR

NONISOTOPIC METHOD FOR ESTIMATING CHOLESTEROGENESIS IN THE RAT. Phillips WA, Ratchford JM, Schultz JR *Adv Exp Med Biol* 67: 251-265, 1976 (Eng) *DL/77MAR548

Schulz JM

ENCOURAGEMENT BREEDS INDEPENDENCE IN THE BLIND DIABETIC. Schulz JM, Williams M *Nursing (Jenkintown)* 6: 19-20, Dec 76 (Eng) DL/77MAR292

ACTIVITIES OF DAILY LIVING; BLINDNESS (etiology, rehabilitation); DIABETIC RETINOPATHY (complications); HUMAN.

Schumacher OP

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

Schuman L

EPIDEMIOLOGY OF DISEASES IN ADULT MALES WITH LEUKEMIA. Gibson R, Graham S, Lilienfeld A, Schuman L, Levin M, Swanson

Diabetes Literature—Author Index

Sharma SK

M J Natl Cancer Inst 56: 891-8, May 76 (Eng)
DL/77MAR216

Schunk W

[THE PROBLEM OF ABILITY TO WORK AND THE SUPERVISION OF WORKING PATIENTS WITH DIABETES MELLITUS] Schunk W Z Aerzt Fortbild (Jena) 70: 650-1, 13 Jun 76 (Ger) DL/77MAR389
BLOOD SUGAR (analysis); DIABETES MELLITUS (rehabilitation); HUMAN; MALE; WORK CAPACITY EVALUATION.

Schwarck H

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Willms B, Kobberling J J Clin Endocrinol Metab 43: 1183-5, Nov 76 (Eng) DL/77MAR172

Schwartz AL

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R Diabetes 25: 1118-22, Dec 76 (Eng) DL/77MAR127

Schwartz HC

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R Diabetes 25: 1118-22, Dec 76 (Eng) DL/77MAR127

ADULT; DIABETES MELLITUS (blood); FEMALE; HEMOGLOBIN A (metabolism); HEMOGLOBINS (metabolism); HUMAN; OBESITY IN DIABETES (blood); PREGNANCY IN DIABETES (blood); PREGNANCY TRIMESTER, THIRD; PREGNANCY UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Schwartz R

EFFECTS OF PREGNANCY ON HEMOGLOBIN A1C IN NORMAL, GESTATIONAL DIABETIC, AND DIABETIC WOMEN. Schwartz HC, King KC, Schwartz AL, Edmunds D, Schwartz R Diabetes 25: 1118-22, Dec 76 (Eng) DL/77MAR127

Schweigart U

[GLUCOSE METABOLISM DURING STEROID AND BIGUANIDE THERAPY USING TRITIATED GLUCOSE] Bottermann P, Schweigart U, Emmler R Verh Dtsch Ges Inn Med 81: 1481-4, 1975 (Ger) *DL/77MAR539

Schwinn G

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPONTANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Milstrey HR, Willms B, Kobberling J J Clin Endocrinol Metab 43: 1183-5, Nov 76 (Eng) DL/77MAR172

ADOLESCENCE; ADULT; ARGININE (pharmacodynamics); BLOOD SUGAR (metabolism); DIABETES MELLITUS (metabolism); EXERTION; HUMAN; MALE; MIDDLE AGE; PIMOZIDE (pharmacodynamics); RECEPTORS, DOPAMINE (drug effects); SOMATOTROPIN (metabolism).

Scopp IW

PERIODONTICS AND DIABETES. Scopp IW NY J Dent 47: 9-11, Jan 77 (Eng) DL/77MAR294
ADULT; BLOOD VESSELS (pathology); CASE REPORT; CHILD; DIABETES MELLITUS

(complications, pathology); HUMAN; MALE; PERIODONTAL DISEASES (etiology, pathology, therapy).

Scott PH

BLOOD SUGAR AND BETA-BLOCKERS [LETTER]. Linton SP, Scott PH, Kendall MJ Br Med J 2: 877-8, 9 Oct 76 (Eng) DL/77MAR16

Scranton PE Jr

HUMAN FIBULAR DYNAMICS. PP. 1-6. Weinert CR Jr, McMaster JH, Scranton PE Jr, Ferguson RJ In: Bateman JE, ed. Foot science. Philadelphia, Saunders, 1976. WE 880 A511f 1974. (Eng) *DL/77MAR506

Sebko TV

[LIPID SPECTRUM OF BLOOD IN PREGNANT WOMEN WITH DIABETES MELLITUS] Grianova IM, Kniazew IuA, Vtorova VG, Sebko TV Vopr Okhr Materin Det 21: 75-8, Aug 76 (Rus) DL/77MAR379

Segal S

REGULATORY CHARACTERISTICS OF AMINO ACID TRANSPORT IN NEWBORN RAT RENAL CORTEX CELLS. Reynolds RA, Segal S Biochim Biophys Acta 426: 513-25, 19 Mar 76 (Eng) *DL/77MAR486

Schlin J

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Schlin J, Soderberg M, Taljedal IB Endocrinology 99: 1398-406, Nov 76 (Eng) DL/77MAR61

STUDIES ON THE FUNCTION OF PANCREATIC ISLET CELL MEMBRANES. Idahl LA, Lernmark A, Schlin J, Taljedal IB J Physiol (Paris) 72: 729-46, Nov 76 (Eng) DL/77MAR205

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Schlin J, Taljedal IB Pfluegers Arch 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

Seidel H

[BEHAVIOR OF CALCIUM, INORGANIC PHOSPHORUS, MAGNESIUM AND GLUCOSE CONCENTRATIONS IN THE PLASMA OF EWES IN THE PERINATAL PERIOD] Brenner K, Seidel H Arch Exp Veterinaermed 29: 939-45, Dec 75 (Ger) *DL/77MAR553

Seitz HJ

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W Biochim Biophys Acta 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W Endocrinology 99: 1313-8, Nov 76 (Eng) DL/77MAR59

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADRENALECTOMY; ANIMAL; BLOOD SUGAR (metabolism); CASEIN (metabolism); GLUCAGON (blood); INSULIN (blood); LIVER (metabolism); MALE; RATS; STARVATION.

PHYSIOLOGIC SIGNIFICANCE OF GLUCOCORTICIDS AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski

W Metabolism 25: 1545-55, Dec 76 (Eng) DL/77MAR251

ADENINE NUCLEOTIDES (metabolism); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADRENAL GLANDS (physiology); ADRENALECTOMY; ANIMAL; DIBUTYRYL CYCLIC AMP (pharmacodynamics); GLUCAGON (blood); GLUCOCORTICIDS (physiology); GLUCONEOGENESIS (drug effects); HEXOSEDIPHOSPHATASE (metabolism); INSULIN (blood, physiology); LIVER (drug effects, metabolism); MALE; PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PYRUVATE CARBOXYLASE (metabolism); RATS; STARVATION (metabolism).

GLYCEROLKINASE—A REGULATORY ENZYME OF GLUCONEOGENESIS Seitz HJ, Porsche E, Tarnowski W Acta Biol Med Ger 35: 141-54, 1976 (Eng) DL/77MAR400

ADRENALECTOMY; ALLOXAN DIABETES (metabolism); ANIMAL; ANIMALS, NEWBORN; GLUCONEOGENESIS; GLYCERIN (blood); GLYCEROL KINASE (metabolism); HAMSTERS; KIDNEY (enzymology); LINOLEIC ACIDS (pharmacodynamics); LIVER (enzymology); PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PHOSPHOTRANSFERASES, ATP (metabolism); RATS; STARVATION (metabolism).

Semeniuk H

[SOURCE DOCUMENTS FOR ELECTRONIC DATA PROCESSING IN SELECTED EYE DISEASES] Majewska K, Czechowicz-Janicka K, Janik J, Semeniuk H, Ruszkowski J, Doroszewski J Klin Oczna 46: 999-1003, Sep 76 (Pol) DL/77MAR235

Sener A

CALCIUM ANTAGONISTS AND ISLET FUNCTION. VIII. THE EFFECT OF MAGNESIUM. Malaise WJ, Devis G, Herchuelz A, Sener A, Somers G Diabete Metab 2: 1-4, Mar 76 (Eng) DL/77MAR107

Settergren G

CEREBRAL BLOOD FLOW AND EXCHANGE OF OXYGEN, GLUCOSE, KETONE BODIES, LACTATE, PYRUVATE AND AMINO ACIDS IN INFANTS. Settergren G, Lindblad BS, Persson B Acta Paediatr Scand 65: 343-53, May 76 (Eng) *DL/77MAR542
ACETOACETATES (blood); ADOLESCENCE; AMINO ACIDS (blood); BLOOD SUGAR (metabolism); BLOOD-BRAIN BARRIER; BODY TEMPERATURE; CARBON DIOXIDE (blood); CEREBROVASCULAR CIRCULATION; CHILD; FEMALE; HUMAN; HYDROXYBUTYRATES (blood); INFANT; INFANT, NEWBORN; KETONE BODIES (blood); LACTATES (blood); MALE; NITROUS OXIDE (blood); OXYGEN (blood); PARTIAL PRESSURE; PHILIPPINES (physiology); PYRUVATES (blood).

Seydoux J

CONTROL OF A AND B CELLS IN VIVO BY SYMPATHETIC NERVOUS INPUT AND SELECTIVE HYPOTENSIVE AGENTS IN DOG PANCREAS. Girardier L, Seydoux J, Campfield LA J Physiol (Paris) 72: 801-14, Nov 76 (Eng) DL/77MAR211

Sezille G

[STUDIES OF LIPOPROTEIN LIPASE ACTIVITY AND ADIPOCYTE CHARACTERISTICS IN THE HUMAN: EFFECT OF OBESITY AND DIABETES (AUTHORS TRANSL.)] Jaillard J, Sezille G, Fruchart JC, Dewailly P, Romon M Diabete Metab 2: 5-9, Mar 76 (Fre) DL/77MAR113

Sharma SK

THE ROLE OF IMIPRAMINE HYDROCHLORIDE ON PLASMA

Sharp GW

TRANSAMINASE AND GLUCOSE LEVEL ON RATS UNDER ALTITUDE STRESS. Chatterjee AK, Dighe SK, Sachan SA, Sharma SK, Chatterjee AK *Indian J Physiol Pharmacol* 20: 42-5, Jan-Mar 76 (Eng) *DL/77MAR505

Sharp GW

THE ACTIVATION OF ADENYLATE CYCLASE BY CHOLERA TOXIN: POSSIBLE INTERACTION WITH THE NUCLEOTIDE REGULATORY SITE. Flores J, Sharp GW *Ciba Found Symp* 42: 89-108, 1976 (Eng) [35] DL/77MAR47

Shaw-Taylor KE

HYPEROSMOLAR NON-KETOTIC DIABETIC COMA IN A JUVENILE. Owusu SK, Anterkyi FS, Shaw-Taylor KE, Konotey-Ahulu FI *Ghana Med J* 14: 241-2, Sep 75 (Eng) DL/77MAR397

Shcherbacheva LN

[RELATIONSHIP BETWEEN THE COURSE OF DIABETES MELLITUS IN CHILDREN AND INDICES OF COMPLEMENT AND INSULIN ANTIBODY TITERS] Dreval AV, Zhukovskii MA, Shcherbacheva LN, Mikhailova VS *Vopr Okhr Materin Det* 21: 12-7, Feb 76 (Rus) DL/77MAR370

Shcherbina RV

[STATE OF LIPID METABOLISM AND THE ORGAN OF VISION IN CHILDREN WITH DIABETES MELLITUS] Ostashevskaya MI, Petrashevskaya MM, Shcherbina RV *Vopr Okhr Materin Det* 21: 17-20, Feb 76 (Rus) DL/77MAR371

Shenfield GM

RAPID ONSET OF PROLIFERATIVE RETINOPATHY IN YOUNG INSULIN-INDEPENDENT DIABETICS. Steel JM, Shenfield GM, Duncan LJ *Br Med J* 2: 852, 9 Oct 76 (Eng) DL/77MAR15

Shepherd DN

A SEMIAUTOMATED METHOD FOR THE ESTIMATION OF SERUM HAPTOGLOBIN LEVELS. Shepherd DN, Jonsson A *Biochem Med* 16: 152-6, Oct 76 (Eng) DL/77MAR473

AUTOANALYSIS; COLORIMETRY; DIABETES MELLITUS (blood); HAPTOGLOBINS (analysis, metabolism); HUMAN; METHEMOGLOBIN (metabolism); METHODS.

Sherlock S

PORTAL VENOUS GOODIES AND FULMINANT VIRAL HEPATITIS [EDITORIAL]. Sherlock S *N Engl J Med* 295: 1535-6, 30 Dec 76 (Eng) DL/77MAR269

ACUTE DISEASE; DRUG SYNERGISM; GLUCAGON (pharmacodynamics, therapeutic use); HEPATITIS A (drug therapy); HUMAN; INSULIN (pharmacodynamics, therapeutic use); LIVER CIRCULATION (drug effects); LIVER REGENERATION (drug effects); PANCREATIC HORMONES (pharmacodynamics).

Sherratt HS

THE BIOCHEMICAL BASIS OF JAMAICAN AKEE POISONING. Billington D, Osmundsen H, Sherratt HS *N Engl J Med* 295: 1482, 23 Dec 76 (Eng) DL/77MAR267

Sherwin R

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

Sheth UK

EFFECT OF FOOD INGESTION ON CERTAIN CLINICALLY IMPORTANT BIOCHEMICAL INVESTIGATIONS. Valame S, Tanksale KG, Sheth UK *J Postgrad Med* 21: 173-6, Oct 75 (Eng) *DL/77MAR514

Diabetes Literature—Author Index

Shichiri M

[ARTIFICIAL PANCREATIC BETA CELLS—THE PRESENT STATUS AND PROSPECT] Shichiri M, Kawamori T, Goriya Y, Shigeta Y *Jpn J Clin Med* 34: 2886-93, 10 Sep 76 (Jpn) DL/77MAR224

ANIMAL; AUTOMATION; BLOOD SUGAR (analysis); COMPUTERS, DIGITAL; DOGS; HUMAN; INSULIN (administration & dosage); ISLANDS OF LANGERHANS.

Shideman JR

TRANSPLANTATION VERSUS DIALYSIS IN HIGH RISK PATIENTS. PP. 702-9. Kjellstrand CM, Mauer SM, Shideman JR, Simmons RL, Buselmeier TJ, Najarian JS *In: Ino Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a. (Eng) DL/77MAR192*

Shigeta Y

[ARTIFICIAL PANCREATIC BETA CELLS—THE PRESENT STATUS AND PROSPECT] Shichiri M, Kawamori T, Goriya Y, Shigeta Y *Jpn J Clin Med* 34: 2886-93, 10 Sep 76 (Jpn) DL/77MAR224

Shima K

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

Shirley PS

EFFECT OF NITRO BLUE TETRAZOLIUM DYE ON THE HEXOSE MONOPHOSPHATE SHUNT ACTIVITY OF HUMAN POLYMORPHONUCLEAR LEUKOCYTES. DeChatelet LR, Shirley PS *Biochem Med* 14: 391-8, Dec 75 (Eng) *DL/77MAR558

Shook DF

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, O'Dorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzafieri EL *Gastroenterology* 72: 49-54, Jan 77 (Eng) DL/77MAR133

Shu MJ

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Bensman SP *J Physiol (Paris)* 72: 721-8, Nov 76 (Eng) DL/77MAR204

Sibilli S

PROTEASE I FROM ESCHERICHIA COLI. SOME PHYSICO-CHEMICAL PROPERTIES AND SUBSTRATE SPECIFICITY. Pacaud M, Sibilli S, Bras G *Eur J Biochem* 69: 141-51, 1 Oct 76 (Eng) DL/77MAR65

Sicolo N

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabete Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

Sidbury, JB

PLASMA AMINO ACIDS IN PATIENTS WITH THE CARCINOID SYNDROME. Feldman JM, Plonk JW, Admiraal J, Sidbury, JB *Cancer* 38: 2127-31, Nov 76 (Eng) DL/77MAR28

Siesjo BK

EVIDENCE AGAINST H₂ AND K₂ AS THE MAIN FACTORS IN THE REGULATION OF CEREBRAL BLOOD FLOW DURING EPILEP-

TIC DISCHARGES, ACUTE HYPOXEMIA, AMPHETAMINE INTOXICATION, AND HYPOGLYCEMIA. A MICROELECTRODE STUDY. PP. 110-6. Astrup J, Heuser D, Lassen NA, Nilsson B, Norberg K, Siesjo BK *In: Ino Betz E, ed. Ionic actions on vascular smooth muscle. Berlin, Springer, 1976. W3 SY732 1976i. (Eng) DL/77MAR187*

GLUCOSE CONSUMPTION IN RAT CEREBRAL CORTEX IN NORMOXIA, HYPOXIA AND HYPERCAPNIA. Borgstrom L, Norberg K, Siesjo BK *Acta Physiol Scand* 96: 569-74, Apr 76 (Eng) *DL/77MAR546

Simmons RL

TRANSPLANTATION VERSUS DIALYSIS IN HIGH RISK PATIENTS. PP. 702-9. Kjellstrand CM, Mauer SM, Shideman JR, Simmons RL, Buselmeier TJ, Najarian JS *In: Ino Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a. (Eng) DL/77MAR192*

Simonov EE

[PHYSIOLOGICAL AND BIOCHEMICAL REACTIONS TO A STANDARD BATTERY OF EMOTION-PRODUCING FACTORS] Simonov EE, Dlusskaia IG *Voen Med Zh* 66-9, Feb 76 (Rus) *DL/77MAR534

AVIATION MEDICINE; BLOOD PRESSURE; BLOOD SUGAR (metabolism); CREATININE (urine); HUMAN; NATRIURESIS; POTASSIUM (urine); PSYCHOLOGICAL TESTS; STRESS, PSYCHOLOGICAL (physiology); URIC ACID (urine); USSR (urine); 17-HYDROXYCORTICOSTEROIDS (urine).

Singhal RL

EFFECTS OF SUBSACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacew S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

Singleton AG

STOMACH MOTILITY IN INSULIN-TREATED SHEEP. Ali TM, Nicholson T, Singleton AG *Q J Exp Physiol* 61: 321-9, Oct 76 (Eng) DL/77MAR331

Sinzinger H

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Sinzinger H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R *Wien Med Wochenschr* 125: 611-4, 17 Oct 75 (Ger) *DL/77MAR536

Skorpi V

[DECOMPRESSION OF INDIVIDUAL NERVES IN ANATOMICAL STRICTURES IN POLYNEUROPATHIES] Skorpi V *Handchirurgie* 8: 127-8, 1976 (Ger) DL/77MAR140

ALCOHOLISM (complications); DIABETIC NEUROPATHIES (complications); ENGLISH ABSTRACT; HUMAN; MALE; MIDDLE AGE; NERVE COMPRESSION SYNDROMES (etiology); NEUROMA (complications); PARALYSIS (etiology); PERIPHERAL NERVE DISEASES (etiology, surgery); ULNAR NERVE (surgery).

Slack CR

IS PHOSPHOLIPASE D REALLY AN ENZYME? A COMPARISON OF IN SITU AND IN VITRO ACTIVITIES. Roughan PG, Slack CR *Biochim Biophys Acta* 431: 86-95, 22 Apr 76 (Eng) *DL/77MAR487

Sladen GE

SMALL INTESTINAL TRANSIT IN DIABETICS. Scarpello JH, Greaves M, Sladen GE *Br Med J* 122: 6-20, Nov 76 (Eng) DL/77MAR20

Slama G

STUDY OF GLUCAGON SECRETION USING IN VITRO PERFUSION OF RAT PANCREAS PIECES. Assan R, Plouin PF, Girard JR, Slama G, Hauteceuvre M, Buneaux JJ *Diabete Metab* 1: 101-11, Jun 75 (Eng) DL/77MAR88

Slater D

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

ANIMAL; DIABETES MELLITUS (therapy); GRAFT REJECTION; ISLANDS OF LANGERHANS (pathology, transplantation); LIVER (surgery); PANCREAS (pathology); RATS; TIME FACTORS; TRANSPLANTATION, ALLOGENEIC; TRANSPLANTATION, ISOGENEIC.

Small D

SPECIAL NEEDS OF THE GERIATRIC DIABETIC PATIENT. Small D *J Pract Nurs* 26: 25-7, 36, Nov 76 (Eng) DL/77MAR213

AGED; DIABETES MELLITUS (nursing); DIABETIC ANGIOPATHIES (prevention & control); DIABETIC DIET; GERIATRIC NURSING; GLYCOSURIA; HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use).

Smith N

ALLEVATION OF NARCOTIC WITHDRAWAL SYNDROME BY CONDITIONAL STIMULI. Lal H, Miksic S, Drawbaugh R, Numan R, Smith N *Pavlov J Biol Sci* 11: 251-62, Oct-Dec 76 (Eng) DL/77MAR303

Smith PH

STRESS-INDUCED INHIBITION OF TRIGLYCERIDE SECRETION IN VIVO SAND RATS (PSAMMOMYS OBEUS). Robertson RP, Smith PH *Metabolism* 25: 1583-90, Dec 76 (Eng) DL/77MAR254

Smith SS

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

Smythe A

THE REJECTION OF ISLETS OF LANGERHANS FOLLOWING INTRAHEPATIC TRANSPLANTATION IN THE RAT. Slater D, Mangnall Y, Smythe A, Fox M *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 295-302, 1976 (Eng) DL/77MAR418

Smythies JR

PERSPECTIVES IN PSYCHONEUROENDOCRINOLOGY. Smythies JR *Psychoneuroendocrinology* 1: 317-9, 1976 (Eng) DL/77MAR330

AMINO ACID SEQUENCE; ANIMAL; BEHAVIOR; BRAIN (physiology); CORTICOTROPIN (physiology); HORMONES (physiology); HUMAN; INSULIN (physiology); PROTEIN CONFORMATION; RECEPTORS; HORMONE (metabolism).

Soderberg M

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Schlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

Sohar E

IN VITRO SYNTHESIS OF AMYLOID FIBRILS FROM INSULIN, CALCITONIN AND PARATHORMONE. Kedar I, Ravid M, Sohar E *Isr J Med Sci* 12: 1137-40, Oct 76 (Eng) DL/77MAR1

Sokoloff L

THE OCULAR DOMINANCE COLUMNS OF THE STRIATE CORTEX AS STUDIED BY THE DEOXYGLUCOSE METHOD FOR MEASUREMENT OF LOCAL CEREBRAL GLUCOSE UTILIZATION. Kennedy C, Des Rosiers M, Sokoloff L, Reivich M, Jehle J *Trans Am Neurol Assoc* 100: 74-7, 1975 (Eng) *DL/77MAR532

Sokoloverova IM

[DIABETES MELLITUS AND DEAFNESS] Kozlov Mla, Onegova RF, Petrov VS, Sokoloverova IM *Vestn Otorinolaringol* 21-5, Sep-Oct 76 (Rus) DL/77MAR366

Solomon SS

EFFECT OF ANTECEDENT HORMONE ADMINISTRATION ON LIPOLYSIS IN THE PERFUSED ISOLATED FAT CELL. Solomon SS, Duckworth WC *J Lab Clin Med* 88: 984-94, Dec 76 (Eng) DL/77MAR193

ADIPOSE TISSUE (cytology, drug effects, metabolism); ANIMAL; BUFFERS; DOSE-RESPONSE RELATIONSHIP, DRUG; EPINEPHRINE (pharmacodynamics); GLYCERIN (metabolism); INSULIN (pharmacodynamics); MALE; PROINSULIN (pharmacodynamics); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Somers G

CALCIUM ANTAGONISTS AND ISLET FUNCTION. VIII. THE EFFECT OF MAGNESIUM. Malaisse WJ, Devis G, Herchuelz A, Sener A, Somers G *Diabete Metab* 2: 1-4, Mar 76 (Eng) DL/77MAR107

Somol H

IN VIVO PLATELET FUNCTION IN DIABETES MELLITUS. Fleischman AI, Bierenbaum ML, Stier A, Somol H, Watson PB *Thromb Res* 9: 467-71, Nov 76 (Eng) DL/77MAR359

Sooranna SR

INTERACTING ACTIONS OF INSULIN AND UNESTERIFIED FATTY ACIDS ON LIPOGENIC ENZYMES IN RAT ADIPOCYTES. Sooranna SR, Saggerson ED *FEBS Lett* 69: 144-8, 15 Oct 76 (Eng) DL/77MAR72

ACYLTRANSFERASES (metabolism); ADIPOSE TISSUE (drug effects, enzymology); ANIMAL; CARBOHYDRATES (pharmacodynamics); FRUCTOSE (pharmacodynamics); GLYCEROLPHOSPHATE ACYLTRANSFERASE (metabolism); IN VITRO; INSULIN (pharmacodynamics); KINETICS; MALE; PALMITIC ACIDS (pharmacodynamics); RATS.

Sorial G

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

Sowry GS

ARTERIAL PRESSURE IN CLINICALLY APPARENT DIABETICS. Keen H, Track NS, Sowry GS *Diabete Metab* 1: 159-78, Sep 75 (Eng) DL/77MAR98

Soyama K

[DETERMINATION OF SERUM TRIGLYCERIDES] Fukui I, Soyama K, Takano K, Kushiro H, Masaki K *Jpn J Clin Med* 34 suppl: 1910-24, 1976 (Jpn) DL/77MAR226

Spindler KD

CYCLIC NUCLEOTIDES AND CRUSTACEAN BLOOD GLUCOSE LEVELS. Spindler KD, Wilig A, Keller R *Comp Biochem Physiol* [A] 54: 301-4, 1976 (Eng) *DL/77MAR496

ADENINE (pharmacodynamics); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); CRABS (drug effects, metabolism); CRAYFISH (drug effects, metabolism); FLUORIDES (pharmacodynamics); GUANOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); HEMOLYMPH (drug effects, metabolism); KINETICS; MALE; SPECIES SPECIFICITY; THEOPHYLLINE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Sprayregen S

REVASULARIZATION OF THE PERONEAL ARTERY. Dardik H, Ibrahim IM, Sprayregen S, Dardik I *Surg Gynecol Obstet* 143: 946-8, Dec 76 (Eng) DL/77MAR354

Stanesco J

[EPIDEMIOLOGICAL STUDIES CONCERNING DIABETES MELLITUS IN RUMANIA. PREMISES, METHODOLOGY AND RESULTS] Mincou I, Dumitrescu C, Stanesco J *Med Interne* 14: 241-51, Oct-Dec 76 (Fre) DL/77MAR334

Stanley D

THE EFFECT OF ATROPINE ON THE INSULIN RELEASE CAUSED BY ORAL AND INTRAVENOUS GLUCOSE IN HUMAN SUBJECTS. Henderson JR, Jefferys DB, Jones RH, Stanley D *Acta Endocrinol (Kbh)* 83: 772-80, Dec 76 (Eng) DL/77MAR401

Starka L

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospichal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

Starr JI

INSULIN AND PROINSULIN METABOLISM IN AN UNUSUAL CASE OF INSULINOMA. Kreines K, Starr JI, Mako ME *Ohio State Med J* 72: 704, 707-9, Dec 76 (Eng) DL/77MAR300

Steel JM

RAPID ONSET OF PROLIFERATIVE RETINOPATHY IN YOUNG INSULIN-INDEPENDENT DIABETICS. Steel JM, Shenfield GM, Duncan LJ *Br Med J* 2: 852, 9 Oct 76 (Eng) DL/77MAR15

ADULT; DIABETES MELLITUS (diagnosis); DIABETIC RETINOPATHY (diagnosis); FEMALE; FOOT DISEASES (complications); HUMAN; MALE; SKIN ULCER (complications); TIME FACTORS.

Steffes MW

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1123-8, Dec 76 (Eng) DL/77MAR128

Stein E

THE NATURE OF THE TRAINING RESPONSE; PERIPHERAL AND CENTRAL ADAPTA-

Steiner DF

TIONS OF ONE-LEGGED EXERCISE. Saltin B, Nazar K, Costill DL, Stein E, Jansson E, Essen B, Gollnick D *Acta Physiol Scand* 96: 289-305, Mar 76 (Eng) *DL/77MAR545

Steiner DF

PREPARATION AND CHARACTERIZATION OF PLASMA MEMBRANE-ENRICHED FRACTIONS FROM RAT PANCREATIC ISLETS. Lernmark A, Nathans A, Steiner DF *J Cell Biol* 71: 606-23, Nov 76 (Eng) DL/77MAR168

Stenson W

EFFECTS OF CARBOHYDRATE RESTRICTION ON THE HYPOGLYCEMIC PHASE OF THE GLUCOSE TOLERANCE TEST. Permutt MA, Delmez J, Stenson W *J Clin Endocrinol Metab* 43: 1088-93, Nov 76 (Eng) DL/77MAR171

Sterne J

[CHANGES IN CARBOHYDRATE METABOLISM AND EFFICIENCY OF HYPOGLYCEMIC DRUGS RELATED TO THE LIGHT DARK CYCLE IN RATS. A STUDY ON STIMULATED DIAPHRAGM (AUTHORS TRANSL)] Sterne J, Pecard F *Diabete Metab* 2: 21-5, Mar 76 (Fre) DL/77MAR110

ANIMAL; DARKNESS; DIAPHRAGM; ELECTRIC STIMULATION; ENGLISH ABSTRACT; GLUCOSE (metabolism); HYPOGLYCEMIC AGENTS (pharmacodynamics); IN VITRO; LIGHT; MALE; MUSCLES (metabolism); RATS; SEASONS.

Stevenson A

EFFECTS OF SUBACUTE AND CHRONIC LEAD TREATMENT ON GLUCOSE HOMEOSTASIS AND RENAL CYCLIC AMP METABOLISM IN RATS. Stevenson A, Merali Z, Kacow S, Singhal RL *Toxicology* 6: 265-75, Nov-Dec 76 (Eng) DL/77MAR361

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ANIMAL; COMPARATIVE STUDY; DOSE-RESPONSE RELATIONSHIP, DRUG; FEMALE; GLUCONEOGENESIS (drug effects); GLUCOSEPHOSPHATASE (metabolism); HEXOSEDIPHOSPHATASE (metabolism); HOMEOSTASIS (drug effects); INSULIN (metabolism); KIDNEY (drug effects, metabolism); LEAD POISONING (metabolism); LEAD (administration & dosage, toxicity); MALE; PANCREAS (drug effects); PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); PYRUVATE CARBOXYLASE (metabolism); RATS.

Stevenson JH

ABILITY OF EXOGENOUS ALANINE TO LOWER BLOOD BETA-HYDROXYBUTYRATE DURING DEVELOPMENT IN RATS. Ozand PT, Tildon JT, Stevenson JH, Reed WD, Cornblath M *Am J Physiol* 230: 1385-8, May 76 (Eng) *DL/77MAR551

Stiel D

[THE EFFECTS OF CALCITONIN, GLUCAGON AND THE DIBUTYRYL DERIVATIVE OF CYCLIC AMP ON PLASMA-RENIN ACTIVITY (AUTHORS TRANSL)] Werning C, Stiel D *Dtsch Med Wochenschr* 101: 1690-2, 12 Nov 76 (Ger) DL/77MAR49

Stier A

IN VIVO PLATELET FUNCTION IN DIABETES MELLITUS. Fleischman AI, Bierenbaum ML, Stier A, Somol H, Watson PB *Thromb Res* 9: 467-71, Nov 76 (Eng) DL/77MAR359

Stillings SN

GLUCOSE AND ATP LEVELS IN PANCREATIC ISLET TISSUE OF NORMAL AND DIABETIC RATS. Matschinsky FM, Pagliara AS, Stillings SN, Hover BA *J Clin Invest* 58: 1193-200, Nov 76 (Eng) DL/77MAR175

Diabetes Literature—Author Index

Stocks AE

VASCULAR PROBLEMS OF DIABETES. Stocks AE *Med J Aust* 2: 540-3, 2 Oct 76 (Eng) DL/77MAR259
ADULT; ATHEROSCLEROSIS (therapy); CORONARY DISEASE (therapy); DIABETIC ANGIOPATHIES (therapy); DIABETIC NEPHROPATHIES (therapy); DIABETIC NEUROPATHIES (therapy); DIABETIC RETINOPATHY (therapy); FEMALE; GANGRENE (therapy); HUMAN; MALE; MIDDLE AGE.

Strecker EP

[TRANSVENOUS KIDNEY PUNCTURE. NEW PROCEDURE FOR WITHDRAWAL OF KIDNEY TISSUE] Mathias K, Rohrbach R, Strecker EP, Kauffmann G *Fortschr Med* 94: 1700-4, 21 Oct 76 (Ger) DL/77MAR143

Streicher D

[AUTORADIOGRAPHY, IN THE ELECTRON MICROSCOPE, OF ENDOCRINE PANCREATIC CELLS OF A TELEOST FISH, XIPHOPHORUS HELLERI H.] Klein C, Streicher D *C R Acad Sci [D] (Paris)* 283: 635-7, 27 Sep 76 (Fre) DL/77MAR40

Strik JJ

CHRONIC TOXIC EFFECTS OF THE WATER OF THE RIVER RHINE UPON RAINBOW TROUTS. PP. 81-91. Poels CL, Strik JJ *In0 Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [13] *DL/77MAR508*

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jongh HH, van Rijn van Alkemade JW, Wuite TP *In0 Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [26] *DL/77MAR509*

ANIMAL EXPERIMENTS (analysis); ASPARTATE AMINOTRANSFERASE (metabolism); BLOOD SUGAR (metabolism); CHROMIUM (toxicity); FEMALE; FISHES (anatomy & histology, blood, metabolism); GILLS (pathology); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); GONADS (anatomy & histology); HEMATOOCRIT; HEMOGLOBINS (metabolism); KIDNEY (anatomy & histology); LIVER (anatomy & histology, enzymology); MALE; MONOGRAPH (mortality); ORGAN WEIGHT; REVIEW; SODIUM (blood); TROUT; WATER POLLUTANTS, CHEMICAL (toxicity).

Strober W

THE ROLE OF THE KIDNEY IN THE METABOLISM OF PLASMA PROTEINS. PP. 392-405. Strober W, Waldmann TA *In0 Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a. (Eng) [27] DL/77MAR191*

ANIMAL; BENICE JONES PROTEIN (metabolism); BETA 2 MICROGLOBULIN (metabolism); BLOOD PROTEINS (metabolism); GLOMERULAR FILTRATION RATE; HORMONES (metabolism); HUMAN; IGG (metabolism); IMMUNOGLOBULINS, LAMBDA CHAIN (metabolism); INSULIN (metabolism); KIDNEY DISEASES (metabolism); KIDNEY GLOMERULUS (metabolism); KIDNEY TUBULES (metabolism); KIDNEY (metabolism); MOLECULAR WEIGHT; MONOGRAPH (mortality); MURAMIDASE (metabolism); PERMEABILITY; PROTEINURIA (metabolism); REVIEW; RIBONUCLEASE (metabolism).

Stromme JH

DOPAMINE-BETA-HYDROXYLASE ACTIVITY IN SERUM FOLLOWING ACUTE MYOCARDIAL INFARCTION: AN EVALUATION OF THIS PARAMETER FOR ROUTINE USE AS AN INDEX OF SYMPATHETIC ACTIVITY. Gutteberg T, Borud O, Stromme JH *Clin Chim Acta* 69: 61-6, 17 May 76 (Eng) *DL/77MAR495

Stulli LA

[GENEALOGICAL CHARACTERISTICS OF CHILDREN FROM DIABETIC FAMILIES] Stulli LA *Vopr Okhr Materin Det* 21: 7-11, Aug 76 (Rus) DL/77MAR378
ADOLESCENCE; ADULT; AGED; CASE REPORT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (familial & genetic); DIABETES MELLITUS, JUVENILE (familial & genetic); DIABETES MELLITUS, JUVENILE (etiology); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; MIDDLE AGE.

Stummvoll HK

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Sinsinger H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R *Wien Med Wochenschr* 125: 611-4, 17 Oct 75 (Ger) *DL/77MAR536

Suda K

A HISTOPATHOLOGICAL STUDY ON THE ISLETS OF LANGERHANS AND DUCTAL EPITHELIAL METAPLASIA IN ATROPHIC LOBULI OF PANCREAS. Suda K, Komatsu K, Hashimoto K *Acta Pathol Jpn* 26: 561-72, Sep 76 (Eng) DL/77MAR429
ADULT; AGED; AUTOPSY; ELASTIC TISSUE (pathology); FEMALE; HUMAN; ISLANDS OF LANGERHANS (pathology); MALE; METAPLASIA; MIDDLE AGE.

Sudi J

CHIRAL RECOGNITION OF PROCHIRAL CENTRES AND GENERAL ACID-BASE CATALYSIS. NECESSARILY INTERRELATED MANIFESTATIONS OF ACTIVE-SITE STRUCTURE. Sudi J *Biochem J* 153: 491-3, 1 Feb 76 (Eng) *DL/77MAR556
BINDING SITES; CHEMISTRY; GLYCOLATES (metabolism); GLYOXYLATES (metabolism); LACTATE DEHYDROGENASE ISOENZYMES (metabolism); LACTATE DEHYDROGENASE (metabolism).

Suchiro S

EFFECT OF PHLORIZIN ON GLUCOSE TRANSPORT IN THE INNER EAR. Takeda T, Makimoto K, Murata K, Suchiro S, Iwai H *Acta Otolaryngol (Stockh)* 81: 424-8, May-Jun 76 (Eng) *DL/77MAR541

Sugase T

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63
ADULT; BLOOD SUGAR (metabolism); CALCIUM (blood); FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (administration & dosage, blood, diagnostic use); HUMAN; INJECTIONS, INTRAVENOUS; INJECTIONS, SUBCUTANEOUS; INSULIN (blood); KINETICS; LACTATES (blood); MALE; PHOSPHATES (blood); POTASSIUM (blood); SOMATOTROPIN (blood); TIME FACTORS.

Sulovic V

LOCALIZATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) BY IMMUNOHISTOCHEMICAL METHOD IN NORMAL

Diabetes Literature—Author Index

Taton J

AND PATHOLOGICAL HUMAN PLACENTA. PP. 373-388. Genbacev O, Sulovic V In: Feldman C, et al., ed. *Immunoenzymatic techniques*. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR188

Summ HD

[(AI-BETA-ALANINE) INSULIN] Geiger R, Geisen K, Regitz G, Summ HD *Hoppe Seylers Z Physiol Chem* 357: 1267-70, Sep 76 (Ger) DL/77MAR149

Sung SM

DIABETIC OPHTHALMOPLEGIA. Sung SM, Ryu RJ, Chen RC *J Formosan Med Assoc* 75: 392-402, Jul 76 (Eng) DL/77MAR197
AGED; CASE REPORT; DIABETES MELLITUS (complications); FEMALE; HUMAN; MALE; MIDDLE AGE; OCULOMOTOR PARALYSIS (diagnosis, drug therapy, etiology).

Suquet JP

METABOLISM OF THE MOUSE MADE OBESE BY A HIGH-FAT DIET. Lemonnier D, Suquet JP, Aubert R, De Gasquet P, Pequignot E *Diabete Metab* 1: 77-85, Jun 75 (Eng) DL/77MAR92

Sutherland DE

INFANT HUMAN PANCREAS. A POTENTIAL SOURCE OF ISLET TISSUE FOR TRANSPLANTATION. Sutherland DE, Matas AJ, Steffes MW, Najarian JS *Diabetes* 25: 1123-8, Dec 76 (Eng) DL/77MAR128

ADOLESCENCE; ADULT; AGE FACTORS; AMYLASE (analysis); ANIMAL; ANIMALS, NEWBORN; CADAVER; CHILD; CHILD, PRESCHOOL; CLOSTRIDIOPOLYMERASE A; HUMAN; INFANT; INFANT, NEWBORN; INSULIN (analysis); ISLANDS OF LANGERHANS (transplantation); PANCREAS (analysis); RATS; TRANSPLANTATION, HOMOLOGOUS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

SutterDub MT

PRELIMINARY REPORT: EFFECTS OF FEMALE SEX HORMONES ON INSULIN SECRETION BY THE PERFUSED RAT PANCREAS. SutterDub MT *J Physiol (Paris)* 72: 795-800, Nov 76 (Eng) DL/77MAR210
ANIMAL; ESTRADIOL (pharmacodynamics); ESTROGENS (pharmacodynamics); FEMALE; INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects); PREGNANCY; PROGESTERONE (pharmacodynamics); RATS; SECRETORY RATE (drug effects).

Sutton DA

PREPARATION OF A CRYSTALLINE AI-(2-NITRO-4-TRIMETHYLAMMONIOPHENYL) DERIVATIVE OF BOVINE INSULIN. Sutton DA, Easter BR, Drewes SE *Hoppe Seylers Z Physiol Chem* 357: 971-6, Jul 76 (Eng) DL/77MAR146

AMMONIUM COMPOUNDS (isolation & purification); ANIMAL; CATTLE; CHEMISTRY; CHROMATOGRAPHY, DEAE-CELLULOSE; CONVULSIONS (chemically induced); CRYSTALLIZATION; DANSYL COMPOUNDS (isolation & purification); ELECTROPHORESIS, CELLULOSE ACETATE; ELECTROPHORESIS, DISC; INSULIN (analogs & derivatives, isolation & purification, pharmacodynamics); MICE; ZINC.

PREPARATION OF A CRYSTALLINE TRIS-(N-METHYLPIRIDINIUM)-DERIVATIVE OF BOVINE INSULIN. Drewes SE, Sutton DA *Hoppe Seylers Z Physiol Chem* 357: 1261-6, Sep 76 (Eng) DL/77MAR148

Suzuki S

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

Svegaard A

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409

Svensson SO

GASTRIC ACID AND SERUM GASTRIN RESPONSES TO INSULIN AND 2-DEOXY-D-GLUCOSE IN DUODENAL ULCER PATIENTS BEFORE AND AFTER PARTIAL GASTRECTOMY. Emas S, Svensson SO, Dörner M, Kaess H *Scand J Gastroenterol* 11: 667-72, 1976 (Eng) DL/77MAR335

Swanson M

EPIDEMIOLOGY OF DISEASES IN ADULT MALES WITH LEUKEMIA. Gibson R, Graham S, Lilienfeld A, Schuman L, Levin M, Swanson M *J Natl Cancer Inst* 56: 891-8, May 76 (Eng) DL/77MAR216

Switka S

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

Syrkys I

POTASSIUM, GLUCOSE AND INSULIN ADMINISTRATION IN ACUTE MYOCARDIAL INFARCTION: A FIVE-YEAR STUDY. Machtey I, Syrkys I, Nissimov MR, Lobel H *J Am Geriatr Soc* 24: 534-7, Dec 76 (Eng) DL/77MAR185

Syvalahti E

CHANGE IN HORMONES REFLECTING SYMPATHETIC ACTIVITY IN THE FINNISH SAUNA. Lammintausta R, Syvalahti E, Pekkarinen A *Ann Clin Res* 8: 266-71, Aug 76 (Eng) DL/77MAR464

Takano K

[DETERMINATION OF SERUM TRIGLYCERIDES] Fukui I, Soyama K, Takano K, Kushi H, Masaki K *Jpn J Clin Med* 34 suppl: 1910-24, 1976 (Jpn) DL/77MAR226

Takeda M

DIETARY CONTROL OF INTRACELLULAR DISTRIBUTION OF RAT LIVER FUMARASE. Nakashima K, Takeda M, Tuboi S *Biochem Biophys Res Commun* 72: 1562-9, 18 Oct 76 (Eng) DL/77MAR474

Takeda T

EFFECT OF PHLORIZIN ON GLUCOSE TRANSPORT IN THE INNER EAR. Takeda T, Makimoto K, Murata K, Suehiro S, Iwai H *Acta Otolaryngol (Stockh)* 81: 424-8, May-Jun 76 (Eng) *DL/77MAR541

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); BLOOD SUGAR (analysis); DEPRESSION, CHEMICAL; ENDOLYMPH (metabolism); GLUCOSE (cerebrospinal fluid, metabolism); GUINEA PIGS; LABYRINTH (metabolism); PERILYMPH (metabolism); PHLORHIZIN (pharmacodynamics).

Taljedal IB

ON THE POSSIBLE ROLE OF THIOL GROUPS IN THE INSULIN-RELEASING ACTION OF MERCURIALS, ORGANIC DISULFIDES, ALKYLATING AGENTS, AND SULFONYLUREAS. Hellman B, Lernmark A, Sehlin J, Soderberg M, Taljedal IB *Endocrinology* 99: 1398-406, Nov 76 (Eng) DL/77MAR61

STUDIES ON THE FUNCTION OF PANCREATIC ISLET CELL MEMBRANES. Idahl

LA, Lernmark A, Sehlin J, Taljedal IB *J Physiol (Paris)* 72: 729-46, Nov 76 (Eng) DL/77MAR205

THE DYNAMICS OF INSULIN RELEASE FROM MOUSE PANCREATIC ISLET CELLS IN SUSPENSION. Idahl LA, Lernmark A, Sehlin J, Taljedal IB *Pflugers Arch* 366: 185-8, 5 Nov 76 (Eng) DL/77MAR310

Tanksale KG

EFFECT OF FOOD INGESTION ON CERTAIN CLINICALLY IMPORTANT BIOCHEMICAL INVESTIGATIONS. Valame S, Tanksale KG, Sheth UK *J Postgrad Med* 21: 173-6, Oct 75 (Eng) *DL/77MAR514

Tarasco A

[EXPERIMENTAL STUDY OF GLIPIZIDE. A COMPARISON WITH OTHER HYPOGLYCEMIC SULFONAMIDES (AUTHORS TRANSL.)] Loubatieres AL, Loubatieres-Mariani MM, Alric R, Ribes G, Sorial G, Tarasco A *Diabete Metab* 1: 13-21, Mar 75 (Fre) DL/77MAR80

Tarchini R

[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA] Mioli V, Pacchiarotti P, Raggiolo M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol* 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523

Tarnowski W

EFFECT OF COLD EXPOSURE ON PHOSPHOENOLPYRUVATE CARBOXYKINASE (GTP) ACTIVITY AND CYCLIC AMP CONCENTRATION IN LIVERS OF STARVED RATS. ROLE OF GLUCOCORTICIDS. Krone W, Huttner WB, Seitz HJ, Tarnowski W *Biochim Biophys Acta* 444: 694-703, 22 Oct 76 (Eng) DL/77MAR6

CONCENTRATION OF CYCLIC AMP IN RAT LIVER AS A FUNCTION OF THE INSULIN/GLUCAGON RATIO IN BLOOD UNDER STANDARDIZED PHYSIOLOGICAL CONDITIONS. Seitz HJ, Muller MJ, Nordmeyer P, Krone W, Tarnowski W *Endocrinology* 99: 1313-8, Nov 76 (Eng) DL/77MAR59

PHYSIOLOGICAL SIGNIFICANCE OF GLUCOCORTICIDS AND INSULIN IN THE REGULATION OF HEPATIC GLUCONEOGENESIS DURING STARVATION IN RATS. Seitz HJ, Kaiser M, Krone W, Tarnowski W *Metabolism* 25: 1545-55, Dec 76 (Eng) DL/77MAR251

GLYCEROLKINASE-A REGULATORY ENZYME OF GLUCONEOGENESIS Seitz HJ, Porsche E, Tarnowski W *Acta Biol Med Ger* 35: 141-54, 1976 (Eng) DL/77MAR400

Tarui S

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

Taton J

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

ADIPOSE TISSUE (cytology, metabolism); ADULT; DIABETES MELLITUS (etiology, metabolism); FEMALE; HUMAN; INSULIN (metabolism); MALE; MIDDLE AGE; OBESITY IN DIABETES (etiology, metabolism); OBESITY (complications); RECEPTORS, INSULIN; THEOPHYLLINE (metabolism).

Diabetes Literature—Author Index

Taylor KW

Taylor KW

EPIDEMIOLOGICAL BACKGROUND TO DIABETES. Gamble DR, Taylor KW *Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 161-6, 1976 (Eng) DL/77MAR408*

Taylor RM

ISOLATION AND PRESERVATION OF ISLETS FROM THE MOUSE, RAT, GUINEA-PIG AND HUMAN PANCREAS. Ferguson J, Allsopp RH, Taylor RM, Johnston ID *Br J Surg 63: 767-73, Oct 76 (Eng) DL/77MAR13*

Teagno PS

URBAN TRAFFIC NOISE, CARDIOCIRCULATORY ACTIVITY AND CORONARY RISK FACTORS. di Cantogno L, Dallerba R, Teagno PS, Cocola L *Acta Otolaryngol [Suppl] (Stockh) 0: 55-63, 1976 (Eng) DL/77MAR426*

Teichman J

A NOVEL CYCLIC UNDERCAPEPTIDE, WY-40, 770, WITH PROLONGED GROWTH HORMONE RELEASE INHIBITING ACTIVITY. Sarantakis D, Teichman J, Lien EL, Fenichel RL *Biochem Biophys Res Commun 73: 336-42, 22 Nov 76 (Eng) DL/77MAR477*

Telfer Brunton WA

A RAPID METHOD FOR THE MEASUREMENT OF PLASMA GLUCOSE CONCENTRATION. Telfer Brunton WA, Percy-Robb IW *Clin Chim Acta 69: 131-5, 17 May 76 (Eng) *DL/77MAR494*

BLOOD SUGAR (analysis); COLORIMETRY (methods); COMPARATIVE STUDY; GLUCOSE OXIDASE; HUMAN; INDICATORS AND REAGENTS; MICROCHEMISTRY; NEOPLASMS (blood); TIME FACTORS.

Tempe JD

[HYPEROSMOLAR COMATOSE STATES] Mantz JM, Tempe JD, Jaeger A, Kurtz D *Minerva Med 67: 3643-60, 14 Nov 76 (Ita) DL/77MAR288*

Tepperman HM

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res 17: 588-99, Nov 76 (Eng) DL/77MAR195*

Tepperman J

INSULIN BINDING AND INSULIN RESPONSE OF ADIPOCYTES FROM RATS ADAPTED TO FAT FEEDING. Ip C, Tepperman HM, Holohan P, Tepperman J *J Lipid Res 17: 588-99, Nov 76 (Eng) DL/77MAR195*

Terblanche J

THE TREATMENT OF FULMINANT HEPATIC FAILURE. Terblanche J *S Afr Med J 50: 1711, Oct 76 (Eng) DL/77MAR351*

HEPATIC COMA (therapy); HUMAN; HYPOGLYCEMIA (prevention & control); LIVER DISEASES (therapy).

Testa I

[INFLUENCE OF VARIOUS THERAPEUTIC TREATMENTS ON THE GLUCOSE AND LIPID METABOLISM IN CHRONIC UREMIA] Mioli V, Pacchiarotti P, Ragaiolo M, De Vizia L, Tarchini R, Testa I *Minerva Nefrol 22: 65-70, Mar-Jun 75 (Ita) *DL/77MAR523*

Teuscher A

[CORRELATIONS BETWEEN CLINICAL FINDINGS AND THERAPEUTIC MEASURES AND THE COURSE OF DIABETIC RETINOPATHY] Teuscher A *Schweiz Med Wochenschr 106: 1041-5, 31 Jul 76 (Ger) DL/77MAR342*

BIOFLAVONOIDS (therapeutic use); BLOOD PRESSURE; BLOOD SUGAR; CALCIUM

DOBESILATE (therapeutic use); DIABETIC RETINOPATHY (therapy); ENGLISH ABSTRACT; HUMAN; HYPOPHYSECTOMY; INSULIN (therapeutic use); LIGHT COAGULATION; LIPIDS (metabolism); SOMATOTROPIN (therapeutic use).

Textor T

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518*

Thamer G

[HEPATITIS-B-S (HBS) ANTIGEN AND ANTIBODIES IN DIABETIC PATIENTS] Thamer G, Hasslacher C, Wahl P, Kommerell B *Dtsch Med Wochenschr 101: 1692-3, 12 Nov 76 (Ger) DL/77MAR50*

DIABETES MELLITUS (drug therapy, immunology); HEPATITIS B SURFACE ANTIGEN (analysis); HUMAN; INSULIN (therapeutic use); SYRINGES.

Thithapandha A

MECHANISM OF INHIBITION OF GASTRIC ACID SECRETION BY HYPERTONIC SOLUTIONS AND VASOPRESSIN. Limlomwongse L, Nophakoon J, Thithapandha A *Pfuegers Arch 366: 159-65, 5 Nov 76 (Eng) DL/77MAR309*

Thomas DW

EFFECTS OF ALLOXAN INDUCED DIABETES ON THE FEEDING PATTERNS OF RATS. Thomas DW, Scharrer E, Mayer J *Physiol Behav 17: 345-9, Aug 76 (Eng) DL/77MAR329*

ALLOXAN DIABETES; ANIMAL; CALORIC INTAKE; DIURNAL RHYTHM; EATING; FEEDING BEHAVIOR; FEEDING PATTERNS; FEMALE; RATS; SATIATION.

Thomas FB

LOCALIZATION OF GASTRIC INHIBITORY POLYPEPTIDE RELEASE BY INTESTINAL GLUCOSE PERFUSION IN MAN. Thomas FB, Shook DF, O'Dorisio TM, Cataland S, Mekhjian HS, Caldwell JH, Mazzaferrri EL *Gastroenterology 72: 49-54, Jan 77 (Eng) DL/77MAR133*

ADULT; ANIMAL; BLOOD SUGAR; DUODENUM (secretion); FEMALE; GASTRIC INHIBITORY POLYPEPTIDE (blood, secretion); GASTROINTESTINAL HORMONES (secretion); GLUCOSE (administration & dosage); GUINEA PIGS; HUMAN; ILEUM (secretion); INSULIN (blood, secretion); INTESTINE, SMALL (secretion); JEJUNUM (secretion); MALE; PERFUSION (instrumentation, methods); SWINE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Thomas LJ

INSULIN FROM INDIVIDUAL ISOLATED ISLETS OF LANGERHANS 2. EFFECT OF GLUCOSE IN VARYING CONCENTRATIONS. Beigelman PM, Thomas LJ, Shu MJ, Bensman SP *J Physiol (Paris) 72: 721-8, Nov 76 (Eng) DL/77MAR204*

Thomsen M

HLA, AUTOIMMUNITY, VIRUS AND THE PATHOGENESIS OF JUVENILE DIABETES MELLITUS. Nerup J, Andersen OO, Christy M, Platz P, Ryder L, Thomsen M, Svegaard A *Acta Endocrinol [Suppl] (Kbh) 83 SUPPL 205: 167-75, 1976 (Eng) [50] DL/77MAR409*

Thorpe A

PLASMA INSULIN LEVELS IN TELEOSTS DETERMINED BY A CHARCOAL-SEPARATION RADIOIMMUNOASSAY TECHNIQUE. Thorpe A, Ince BW *Gen Comp Endocrinol 30: 332-9, Nov 76 (Eng) DL/77MAR134*

ANIMAL; BLOOD SUGAR (metabolism); BODY WEIGHT; CHARCOAL; FISHES (blood); INSULIN (blood); RADIOIMMUNOASSAY (methods); SPECIES SPECIFICITY; STARVATION.

Thorspecken R

[RISK FACTORS OF ARTERIOSCLEROSIS IN PATIENTS WITH SEVERE BRADYCARDIA ARRHYTHMIAS] Hasslacher C, Wahl P, Thorspecken R, Nussel E *Z Kardiol 65: 890-6, Oct 76 (Ger) DL/77MAR393*

Tiengo A

PANCREATIC ISLET-CELL AUTOIMMUNITY [LETTER]. Del Prete GF, Betterle C, Bersani G, Romano M, Tiengo A *Lancet 2: 1090, 13 Nov 76 (Eng) DL/77MAR239*

[CLINICAL AND METABOLIC ASPECTS OF JUVENILE MYOCARDIAL INFARCT] Enzi G, Muggeo M, Tiengo A *Minerva Med 67: 3507-18, 10 Nov 76 (Ita) DL/77MAR285*

Tildon JT

ABILITY OF EXOGENOUS ALANINE TO LOWER BLOOD BETA-HYDROXYBUTYRATE DURING DEVELOPMENT IN RATS. Ozand PT, Tildon JT, Stevenson JH, Reed WD, Cornblath M *Am J Physiol 230: 1385-8, May 76 (Eng) *DL/77MAR551*

Titheradge MA

HORMONAL REGULATION OF LIVER MITOCHONDRIAL PYRUVATE CARRIER IN RELATION TO GLUCONEOGENESIS AND LIPOGENESIS. Titheradge MA, Coore HG *FEBS Lett 72: 73-8, 15 Nov 76 (Eng) DL/77MAR76*

ANIMAL; BIOLOGICAL TRANSPORT; CARRIER PROTEINS (metabolism); CELL-FREE SYSTEM; DIABETES MELLITUS (metabolism); EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); GLUCONEOGENESIS; HYDROGEN-ION CONCENTRATION (physiology); LIPIDS (biosynthesis); MEMBRANE POTENTIALS; MITOCHONDRIA, LIVER (drug effects, metabolism, physiology); PYRUVATE DEHYDROGENASE COMPLEX (metabolism); PYRUVATES (metabolism); RATS.

Tkamiya H

SOME PROBLEMS INVOLVED IN POSTEMBEDDING STAINING. PP. 109-15. Vogt A, Tkamiya H, Kim WA *In: Feldman C, et al., ed. Immunocytochemical techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR190*

Tomas V

CYCLIC AMP CONTROL BY PROSTAGLANDIN E1 IN NON-PARENCHYMAL LIVER CELLS. Ferretti E, Biondi C, Tomas V *FEBS Lett 69: 70-4, 15 Oct 76 (Eng) DL/77MAR74*

Tomassini N

[OUR APPROACH TO THE TREATMENT OF PURE DIABETIC ARTERIOPATHY AND ARTERIOSCLEROTIC ARTERIOPATHY IN DIABETICS] Tomassini N, Marconato R, Bianchi E, Malan E *Minerva Cardioangiolog 24: 253-9, Apr 76 (Ita) DL/77MAR273*

AMPUTATION; ARTERIOSCLEROSIS; OBLITERANS (etiology, surgery); DIABETIC ANGIOPATHIES (complications, surgery); ENGLISH ABSTRACT; GANGRENE (surgery); HUMAN.

Toniolo C

THE CHEMISTRY OF TRYPTOPHAN IN PEPTIDES AND PROTEINS. Fontana A, Toniolo C *Fortachr Chem Org Naturst 33: 309-449, 1976 (Eng) [467] DL/77MAR141*

Diabetes Literature—Author Index

Uscilko HK

Torzecki Z

[COMPARISON OF THE SIZE OF HEPATOCYTE NUCLEI IN DIABETES AND IN SELECTED DIGESTIVE TRACT DISEASES] Danilewicz M, Danilewiczowa M, Mielczarek H, Pruszczyński M, Torzecki Z. *Pol Tyg Lek* 31: 1961-2, 15 Nov 76 (Pol) DL/77MAR313

Toyoshima H

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K. *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

Track NS

ARTERIAL PRESSURE IN CLINICALLY APPARENT DIABETICS. Keen H, Track NS, Sowry GS. *Diabete Metab* 1: 159-78, Sep 75 (Eng) DL/77MAR98

Tragl KH

[SOMATOSTATIN IN INSULIN-DEPENDENT DIABETICS AND IN PANCREATICTOMIZED PATIENTS (AUTHORS TRANSL)] Tragl KH, Pointner H, Kinast H, Flegel U, Deutsch E. *Wien Klin Wochenschr* 88: 530-2, 3 Sep 76 (Ger) DL/77MAR386

BLOOD SUGAR; DIABETES MELLITUS (blood, drug therapy); DOGS; ENGLISH ABSTRACT; HUMAN; INJECTIONS, INTRAVENOUS; INSULIN (administration & dosage, therapeutic use); PANCREATICTOMY; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

Trandaburu T

ULTRASTRUCTURAL LOCALIZATION OF ADENYL CYCLASE ACTIVITY IN THE PANCREAS OF TWO AMPHIBIAN SPECIES (SALAMANDRA SALAMANDRA L. AND RANA ESCULENTA L.). Trandaburu T. *Histochemistry* 48: 1-6, 30 Jul 76 (Eng) DL/77MAR165

ADENYL CYCLASE (analysis); ANIMAL; AXONS (enzymology); FEMALE; ISLANDS OF LANGERHANS (enzymology); MALE; PANCREAS (enzymology, innervation, ultrastructure); RANA ESCULENTA; SALAMANDRA.

Trietley GJ

FAILURE OF PORTAL GLUCOSE AND ADRENALINE INFUSIONS OR LIVER DENervation TO AFFECT FOOD INTAKE IN DOGS. Bellinger LL, Trietley GJ, Bernardis LL. *Physiol Behav* 16: 299-304, Mar 76 (Eng) DL/77MAR328

Trowell H

DIETS FOR DIABETICS: NO ADDED SUCROSE [LETTER]. Trowell H. *Br Med J* 2: 1196, 13 Nov 76 (Eng) DL/77MAR19

DIABETIC DIET; HUMAN; SUCROSE.

Tsan MF

SURFACE SULPHYDRYL GROUPS AND PHAGOCYTOSIS-ASSOCIATED OXIDATIVE METABOLIC CHANGES IN HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, McIntyre PA. *Br J Haematol* 33: 189-204, Jun 76 (Eng) *DL/77MAR479

BIOLOGICAL TRANSPORT; BLOOD BACTERICIDAL ACTIVITY (drug effects); BLOOD SUGAR (metabolism); CELL MEMBRANE PERMEABILITY (drug effects); CHLOROMERCURIPHENYLSULFONATE (pharmacodynamics); DEOXYGLUCOSE (blood); ETHYLMALDEIMIDE (pharmacodynamics); FORMATES (blood); HUMAN; HYDROGEN PEROXIDE

(pharmacodynamics); IODIDES (blood); LATEX PARTICLES; NEUTROPHILS (metabolism); OXIDATION-REDUCTION (drug effects); PHAGOCYTOSIS (drug effects); SULFHYDRYL COMPOUNDS (blood, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

SURFACE SULPHYDRYL GROUPS AND HEXOSE MONOPHOSPHATE PATHWAY ACTIVITY IN RESTING HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, Chusid MJ, Wolff SM, McIntyre PA. *Br J Haematol* 33: 205-11, Jun 76 (Eng) *DL/77MAR480

BIOLOGICAL TRANSPORT; BLOOD SUGAR (metabolism); CELL MEMBRANE PERMEABILITY (drug effects); CHLOROMERCURIPHENYLSULFONATE (pharmacodynamics); COLCHICINE (pharmacodynamics); CONCANAVALIN A (pharmacodynamics); ENDOTOXINS (pharmacodynamics); GRANULOMATOUS DISEASE, CHRONIC (blood); HEXOSEPHOSPHATES (blood); HUMAN; NEUTROPHILS (metabolism); PLANT AGGLUTININS (pharmacodynamics); SULFHYDRYL COMPOUNDS (blood); SURFACE PROPERTIES; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Tsomyk VG

[SIDE EFFECTS AND COMPLICATIONS OF USE OF HORMONAL CONTRACEPTIVES (LITERATURE SURVEY)] Pytel IuA, Zolotarev II, Tsomyk VG, Datashvili TD. *Vopr Okhr Materin Det* 21: 79-81, Aug 76 (Rus) DL/77MAR380

Tuboi S

DIETARY CONTROL OF INTRACELLULAR DISTRIBUTION OF RAT LIVER FUMARASE. Nakashima K, Takeda M, Tuboi S. *Biochem Biophys Res Commun* 72: 1562-9, 18 Oct 76 (Eng) DL/77MAR474

Tung AK

GLUCAGON FROM AVIAN PANCREATIC ISLETS: PURIFICATION AND PARTIAL CHARACTERIZATION OF A 9000-DALTON SPECIES WITH GLUCAGON IMMUNOREACTIVITY. Tung AK, Rosenzweig SA, Foa PP. *Proc Soc Exp Biol Med* 153: 344-9, Nov 76 (Eng) DL/77MAR326

AMINO ACIDS (analysis); ANIMAL; ANTIGENIC DETERMINANTS; GLUCAGON (biosynthesis, immunology); ISLANDS OF LANGERHANS (metabolism); MOLECULAR WEIGHT; PIGEONS; PROTEIN PRECURSORS (biosynthesis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Turner TW

SKIN IN SYSTEMIC DISEASE. Turner TW. *Aust Fam Physician* 5: 890-6, 901, 905, Aug 76 (Eng) DL/77MAR472

ARTERITIS (diagnosis); BLISTER (diagnosis); BOWENS DISEASE (diagnosis); DERMATOMYOSITIS; DIABETES MELLITUS (diagnosis); DIAGNOSIS, DIFFERENTIAL; ECZEMA (diagnosis); HUMAN; NEUROFIBROMATOSIS (diagnosis); SKIN DISEASES (diagnosis); SKIN MANIFESTATIONS; XANTHOMATOSIS (diagnosis).

Turtle JR

CURRENT ASPECTS OF AETIOLOGY AND DIAGNOSIS IN DIABETES MELLITUS. Turtle JR. *Med J Aust* 2: 458-60, 18 Sep 76 (Eng) DL/77MAR256

ADULT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (diagnosis); DIABETES MELLITUS (etiology); DIABETES MELLITUS, JUVENILE (etiology, immunology); GLUCAGON (blood); GLUCOSE TOLERANCE TEST; HISTOCOMPATIBILITY ANTIGENS; HUMAN;

HYPERGLYCEMIA (metabolism); ISLANDS OF LANGERHANS (analysis); SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis); VIRUS DISEASES (complications).

Twu JS

HYDROLYSIS OF TRI- AND MONOACYLGLYCEROL BY LIPOPROTEIN LIPASE: EVIDENCE FOR A COMMON ACTIVE SITE.

Twu JS, Nilsson-Ehle P, Schotz MC. *Biochemistry* 15: 1904-9, 4 May 76 (Eng) *DL/77MAR482

AMIDES (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BINDING SITES; CARBAMATES (pharmacodynamics); DRUG STABILITY; GLYCERIDES; KINETICS; LIPOPROTEIN LIPASE (isolation & purification, metabolism); MALE; MYOCARDIUM (enzymology); PROTEIN BINDING; RATS; TRIOLEIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

Tze WJ

FAMILIAL CONGENITAL MONOCHROMATISM, CATARACTS, AND SENSORINEURAL DEAFNESS. Jan JE, Tze WJ, Johnston AC, Dunn HG. *Am J Dis Child* 130: 1349-50, Dec 76 (Eng) DL/77MAR444

GROWTH HORMONE RESPONSE IN FETAL ALCOHOL SYNDROME. Tze WJ, Friesen HG, MacLeod PM. *Arch Dis Child* 51: 703-6, Sep 76 (Eng) DL/77MAR466

ALCOHOLISM (complications); ARGININE (pharmacodynamics); BLOOD SUGAR (analysis); CHILD; CHILD, PRESCHOOL; FEMALE; FETAL DISEASES (blood, etiology, urine); GESTATIONAL AGE; GROWTH DISORDERS (blood, etiology, urine); HUMAN; INFANT; INSULIN (pharmacodynamics); MATERNAL-FETAL EXCHANGE; PREGNANCY; SOMATOMEDIN (blood); SOMATOTROPIN (blood, secretion).

Ude JF

SODIUM PUMPS AND GALACTOSE TRANSFER IN THE SHORT-CIRCUITED SMALL INTESTINE. Ude JF, Barry RJ. *Experientia* 32: 188-90, 15 Feb 76 (Eng) *DL/77MAR500

ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT, ACTIVE; GALACTOSE (metabolism); HEXOSES (metabolism); IN VITRO; JEJUNUM (metabolism); MALE; MEMBRANE POTENTIALS; RATS; SODIUM (metabolism).

Ulbricht G

[STATISTICAL RELATIONSHIPS BETWEEN FOOD SUPPLY AND THE MORTALITY OF SOME CHRONIC DEGENERATIVE DISEASES IN EIGHT INDUSTRIALLY DEVELOPED COUNTRIES] Haenel H, Ulbricht G, Oehmsch W, Erhardt V. *Z Gesamte Hyg* 22: 748-58, 1976 (Ger) DL/77MAR390

Ulreich F

[GLISOXEPIDE TREATMENT IN MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Happ J, Beyer J, Ulreich F, Schoffling K, Krause U, Fronlich A. *Dtsch Med Wochenschr* 101: 1643-6, 5 Nov 76 (Ger) DL/77MAR48

Unger RH

GASTRIC A-CELL FUNCTION IN INSULIN-DEPRIVED DEPANCREATIZED DOGS. Blazquez E, Munoz-Barragan L, Patton GS, Orci L, Dobbs RE, Unger RH. *Endocrinology* 99: 1182-8, Nov 76 (Eng) DL/77MAR57

Uscilko HK

EFFECT OF PROPRANOLOL ON THYROID-INDUCED CHANGES IN BODY TEMPERATURE AND METABOLISM DURING EXERCISE IN DOGS. Uscilko HK, Brzezinska Z, Greenleaf JE. *Acta Physiol Pol* 27: 33-8, Jan-Feb 76 (Eng) *DL/77MAR543

Uytendhoef P

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); BODY TEMPERATURE (drug effects); DOGS; EXERTION; FATTY ACIDS, NONESTERIFIED (blood); LACTATES (blood); PROPANOLOL (pharmacodynamics); STIMULATION, CHEMICAL; THYROXINE (antagonists & inhibitors, pharmacodynamics).

Uytendhoef P

[IMMUNOCYTOCHEMICAL EVIDENCE FOR THE BINDING OF INSULIN TO THE SOMATOTROPIC CELLS OF THE HUMAN HYPOPHYSIS] Legros F, Massant B, Uytendhoef P *C R Acad Sci [D] (Paris)* 283: 357-9, 13 Sep 76 (Fre) DL/77MAR37

Vacek J

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospischal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

Vachon AC

PHOSPHORYLATION REACTIONS IN ISLETS OF LANGERHANS. Muiller WA, Amherdt ML, Vachon AC, Renold AE *J Physiol (Paris)* 72: 711-20, Nov 76 (Eng) DL/77MAR203

Vague J

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

Vague P

[PROPORTION OF LOW INSULIN RESPONDERS TO GLUCOSE AMONG THE OFFSPRING OF MATURITY-ONSET DIABETICS (AUTHORS TRANSL)] Vague P, Ramahandridona G, Vague J *Diabete Metab* 1: 45-50, Mar 75 (Fre) DL/77MAR84

ADOLESCENCE; ADULT; AGE FACTORS; BLOOD SUGAR (metabolism); BODY WEIGHT; CHILD; DIABETES MELLITUS (diagnosis, familial & genetic); ENGLISH ABSTRACT; GLUCOSE (diagnostic use); HUMAN; INSULIN (blood); MIDDLE AGE; OBESITY IN DIABETES; TOLBUTAMIDE (diagnostic use).

KINETICS OF THE EARLY INSULIN RESPONSE OF THE PERFUSED RAT PANCREAS TO VARIOUS METABOLITES AND TOLBUTAMIDE. Vague P, Ramahandridona G, Di Campo-Rougerie C, Mahmoud F *Diabete Metab* 1: 185-9, Sep 75 (Eng) DL/77MAR100

ANIMAL; CAPROATES (pharmacodynamics); GLUCOSE (pharmacodynamics); GLYCERALDEHYDE (pharmacodynamics); INSULIN (secretion); ISLANDS OF LANGERHANS (drug effects, secretion); LEUCINE (pharmacodynamics); MALE; RATS; STIMULATION, CHEMICAL; TIME FACTORS; TOLBUTAMIDE (pharmacodynamics); VALERATES (pharmacodynamics).

Vaisrub S

THE AUTONOMOUS HEART IN DIABETIC AUTONOMIC NEUROPATHY [EDITORIAL]. Vaisrub S *JAMA* 236: 2784, 13 Dec 76 (Eng) DL/77MAR218

AUTONOMIC NERVOUS SYSTEM (physiopathology); DIABETIC NEUROPATHIES (physiopathology); HUMAN; HYPOTENSION, ORTHOSTATIC (etiology).

CONNECTING (C)-PEPTIDE--A SPIN-OFF OF INSULIN SECRETION [EDITORIAL]. Vaisrub S *JAMA* 236: 2888, 20 Dec 76 (Eng) DL/77MAR220

C-PEPTIDE (blood); GLUCAGON (pharmacodynamics); HUMAN; INSULIN (secretion); ISLET CELL TUMOR (diagnosis); PANCREATIC NEOPLASMS (diagnosis); PEPTIDES (blood); STIMULATION, CHEMICAL.

Diabetes Literature—Author Index

Vakhrusheva LL

[ADENOSINE CYCLIC 3,5 MONOPHOSPHATE IN CHILDREN WITH DIABETES MELLITUS] Kniazev luA, Golovanova VB, Vakhrusheva LL, Arsenova EN, Ermolenko RI *Vopr Okhr Materin Det* 21: 11-3, Aug 76 (Rus) DL/77MAR375

Valame S

EFFECT OF FOOD INGESTION ON CERTAIN CLINICALLY IMPORTANT BIOCHEMICAL INVESTIGATIONS. Valame S, Tanksale KG, Sheth UK *J Postgrad Med* 21: 173-6, Oct 75 (Eng) *DL/77MAR514

ADULT; BLOOD SUGAR (analysis); EATING; HUMAN; LIVER CIRRHOSIS (blood, physiopathology); LIVER FUNCTION TESTS; MALE.

Valette G

PHARMACOLOGICAL AGENTS AND ACUTE EXPERIMENTAL HYPERLAEMIA IN THE DOG [PROCEEDINGS]. Loubatieres AL, Ribes G, Valette G *Br J Pharmacol* 58: 429p, Nov 76 (Eng) DL/77MAR111

van den Hurk JJ

ABSENCE OF THE SORBITOL PATHWAY IN EPIDERMIS. Roelfzema H, van den Hurk JJ, Mier PD *Br J Dermatol* 94: 577-8, May 76 (Eng) *DL/77MAR478

Van Der Dijk B

THE EFFECT OF SEROTONIN (5-HT) ON INSULIN SECRETION. Lechin F, Coll-Garcia E, Van Der Dijk B, Pena F, Bentolila A, Rivas C *Acta Physiol Lat Am* 25: 339-46, 1975 (Eng) DL/77MAR433

Van Hung ML

[DISADVANTAGES OF ACID PRECIPITATION OF PROTEINS DURING THE ASSAY OF BLOOD GLUCOSE BY THE ENZYMATIC GLUCOSE OXIDASE-PEROXIDASE SYSTEM] Van Hung ML *C R Acad Sci [D] (Paris)* 282: 751-4, 23 Feb 76 (Fre) *DL/77MAR492

ANIMAL EXPERIMENTS (analysis); BARIUM; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; GLUCOSE OXIDASE (metabolism); HYDROXIDES; OXIDATION-REDUCTION; PERCHLORIC ACIDS; PHILIPPINES (physiology); RATS; SULFATES (surgery); TRICHLOROACETIC ACID; ZINC.

van Rijn van Alkemade JW

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jong HH, van Rijn van Alkemade JW, Wuite TP *In: Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [26] *DL/77MAR509*

VandenBergh RL

EFFECTS OF AN EMG BIOFEEDBACK RELAXATION PROGRAM ON THE CONTROL OF DIABETES: A CASE STUDY. Fowler JE, Budzynski TH, VandenBergh RL *Biofeedback Self Regul* 1: 105-12, Mar 76 (Eng) DL/77MAR8

Vanderkooi JM

PHOTOREDUCTION OF MEMBRANE BOUND CYTOCHROME C BY EXCITED-STATE PHENOTHIAZINE. Vanderkooi JM *Biochem Biophys Res Commun* 69: 1043-9, 19 Apr 76 (Eng) *DL/77MAR559

BINDING SITES; CARDIOLIPINS; CYTOCHROME C (metabolism); LECITHINS; LIGHT; LUMINESCENCE; MEMBRANES, ARTIFICIAL; OXIDATION-REDUCTION; PHENOTHIAZINES; PHOTO-CHEMISTRY; PROTEIN BINDING; SOLUBILITY;

SPECTROPHOTOMETRY; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Vandongen R

SUPPRESSION OF RENIN SECRETION IN THE ISOLATED RAT KIDNEY BY CYCLOHEXIMIDE. Vandongen R *Eur J Pharmacol* 40: 179-81, Nov 76 (Eng) DL/77MAR68

ANIMAL; CYCLOHEXIMIDE (pharmacodynamics); GLUCAGON (pharmacodynamics); ISOPROTERENOL (pharmacodynamics); KIDNEY (drug effects); MALE; PROTEINS (biosynthesis); RATS; RENIN (secretion).

Vanhoutte PM

EFFECTS OF ANOXIA AND GLUCOSE DEPLETION ON ISOLATED VEINS OF THE DOG. Vanhoutte PM *Am J Physiol* 230: 1261-8, May 76 (Eng) *DL/77MAR550

ACETYLCHOLINE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); ANOXIA (physiopathology); COMPARATIVE STUDY; DOGS; GLUCOSE (metabolism); IN VITRO; IPROVERATIL (pharmacodynamics); MESENTERIC VEINS (physiopathology); MUSCLE CONTRACTION (drug effects); MUSCLE, SMOOTH (physiopathology); NOREPINEPHRINE (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); POTASSIUM CHLORIDE (pharmacodynamics); PULMONARY VEINS (physiopathology); SAPHEOUS VEIN (physiopathology); TETRODOTOXIN (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Vaptzarova K

EFFECT OF HIGH LEVEL SECTION OF THE SPINAL CORD ON THE CYCLIC AMP SYSTEM IN RAT LIVER. Vaptzarova K, Hanoune J *Biochim Biophys Acta* 444: 712-8, 22 Oct 76 (Eng) DL/77MAR7

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ANIMAL; CHORDOTOMY; GLUCAGON (pharmacodynamics); LIVER (drug effects, metabolism); MALE; RATS; SPINAL CORD (physiology); 3,5-CYCLIC AMP PHOSPHODIESTERASE (metabolism).

Vasileva ZV

[DIAGNOSIS OF CHRONIC PYELONEPHRITIS IN PREGNANT WOMEN WITH DIABETES MELLITUS] Vasileva ZV, Vtorova VG, Rodoman VE *Vopr Okhr Materin Det* 21: 79-81, Apr 76 (Rus) DL/77MAR374

ADULT; CHRONIC DISEASE; DIABETIC NEPHROPATHIES (diagnosis); ENGLISH ABSTRACT; FEMALE; HUMAN; PREGNANCY IN DIABETES (complications); PREGNANCY; PYELONEPHRITIS (complications, diagnosis).

Vassiliadis A

TECHNIQUES OF ARGON LASER PHOTOCOAGULATION OF DIABETIC DISK NEW VESSELS. Little HL, Zweng HC, Jack RL, Vassiliadis A *Am J Ophthalmol* 82: 675-83, Nov 76 (Eng) DL/77MAR447

Viadro SS

[CLINICAL SIGNIFICANCE OF DISORDERS IN THE BLOOD COAGULATION SYSTEM IN CHILDREN WITH DIABETES MELLITUS (LITERATURE SURVEY)] Viadro SS, Martynova MI *Vopr Okhr Materin Det* 21: 61-5, Apr 76 (Rus) DL/77MAR373

ANTICOAGULANTS (therapeutic use); BLOOD COAGULATION DISORDERS (etiology); BLOOD COAGULATION DISORDERS (drug therapy); BLOOD COAGULATION; CHILD; DIABETES MELLITUS, JUVENILE (blood, complications, metabolism); DIABETIC ANGIOPATHIES (blood, etiology); FIBRINOLYSIS; HUMAN; HYPERLIPIDEMIA (complications); LIPIDS (metabolism).

Diabetes Literature—Author Index

Wapnir RA

Vignals PM

STUDY OF THE TRANSVERSE DIFFUSION OF SPIN-LABELED PHOSPHOLIPIDS IN BIOLOGICAL MEMBRANES. II. INNER MITOCHONDRIAL MEMBRANE OF RAT LIVER: USE OF PHOSPHATIDYLCHOLINE EXCHANGE PROTEIN. Rousselet A, Colbeau A, Vignals PM, Devaux PF *Biochim Biophys Acta* 426: 372-84, 19 Mar 76 (Eng) *DL/77MAR485

Vijayalekshmi NR

METABOLISM OF GLYCOGEN IN THE SCORPION HETEROMETRUS SCABER (THOR.). Vijayalekshmi NR, Kurup PA *Indian J Exp Biol* 14: 124-6, Mar 76 (Eng) DL/77MAR152
ANIMAL: CORTISONE (pharmacodynamics); EPINEPHRINE (pharmacodynamics); FEMALE; GLUCOSE (metabolism); GLYCOGEN (metabolism); INSULIN (pharmacodynamics); MALE; SCORPIONS (metabolism).

Vinik AI

CURRENT TRENDS IN THE MANAGEMENT OF DIABETIC KETO-ACIDOTIC COMA. Vinik AI *5 Afr Med J* 50: 1693-4, Oct 76 (Eng) DL/77MAR349
BICARBONATES (therapeutic use); BRAIN EDEMA (therapy); DIABETIC COMA (drug therapy); HUMAN; INSULIN (therapeutic use); PHOSPHATES (therapeutic use); POTASSIUM (therapeutic use).

Vishnevskii FE

[CARBOHYDRATE METABOLISM IN CHILDREN BORN TO WOMEN WITH DIABETES MELLITUS] Vitorova VG, Savchenko TN, Loseva IV, Vishnevskii FE *Vopr Okhr Materin Det* 21: 9-12, Feb 76 (Rus) DL/77MAR372

Vodza J

[EFFECT OF MINERAL WATER ON THE SECRETION OF INSULIN IN AN ACUTE EXPERIMENT] Horni J, Vodza J *Fysiatr Reumatol Vestn* 54: 236-42, Oct 76 (Cze) DL/77MAR145

Vogt A

SOME PROBLEMS INVOLVED IN POSTEMBRYONIC STAINING. PP. 109-15. Vogt A, Tkamiya H, Kim WA *Ino Feldman C, et al., ed. Immunoenzymatic techniques. Amsterdam, North-Holland, 1976. W3 135 no.2 1975. (Eng) DL/77MAR190*
ANIMAL: ANTIGENIC DETERMINANTS; ANTIGENS (analysis); CORTICOTROPIN (analysis); ETHERS; FLUORESCENT ANTIBODY TECHNIC; FORMIC ACIDS; HISTOLOGICAL TECHNIQS; IGG (analysis); IMMUNOENZYME TECHNIQS; INDICATORS AND REAGENTS; INSULIN (analysis); KIDNEY (immunology); MONOGRAPH (mortality); PANCREAS (analysis); PEPTIDE HYDROLASES; PITUITARY GLAND, ANTERIOR (analysis); RATS; SALMONELLA TYPHIMURIUM (immunology); STAINS AND STAINING; STYRENES; SWINE.

Vomacka V

[PATHOGENESIS OF ERECTION DISORDERS IN DIABETICS] Lachman M, Raboch J, Michal V, Pospichal J, Bernat M, Starka L, Vomacka V, Vacek J *Cas Lek Cesk* 115: 1242-5, 8 Oct 76 (Cze) DL/77MAR30

Von Dorsche HH

[HISTOPATHOCHEMICAL INVESTIGATIONS ON ELASTIC MEMBRANES OF BLOOD VESSELS WITH SPECIAL REGARD OF DIABETES MELLITUS. IV. HEAVY METALS (AUTHORS TRANSL)] Opitz M, Von Dorsche HH *Acta Histochem (Jena)* 56: 211-4, 1976 (Ger) DL/77MAR423

Voyles NR

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION.

Bhathena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

Vranic M

MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M *Diabetes* 25: 1018-25, Nov 76 (Eng) DL/77MAR115

PLASMA GLUCAGON IN PUPS, DECREASED BY FASTING, UNAFFECTED BY SOMATOSTATIN OR HYPOGLYCEMIA. Hetenyi G, Kovacevic N, Hall SE, Vranic M *Am J Physiol* 231: 1377-82, Nov 76 (Eng) DL/77MAR450

Vitorova VG

[CARBOHYDRATE METABOLISM IN CHILDREN BORN TO WOMEN WITH DIABETES MELLITUS] Vitorova VG, Savchenko TN, Loseva IV, Vishnevskii FE *Vopr Okhr Materin Det* 21: 9-12, Feb 76 (Rus) DL/77MAR372
BLOOD SUGAR (metabolism); CHILD, PRESCHOOL; DIABETES MELLITUS (familial & genetic); ENGLISH ABSTRACT; FEMALE; HUMAN; INFANT; NEWBORN; PREGNANCY IN DIABETES; PREGNANCY.

[DIAGNOSIS OF CHRONIC PYELONEPHRITIS IN PREGNANT WOMEN WITH DIABETES MELLITUS] Vasileva ZV, Vitorova VG, Rodoman VE *Vopr Okhr Materin Det* 21: 79-81, Apr 76 (Rus) DL/77MAR374

[LIPID SPECTRUM OF BLOOD IN PREGNANT WOMEN WITH DIABETES MELLITUS] Giaznova IM, Kniazev luA, Vitorova VG, Sebko TV *Vopr Okhr Materin Det* 21: 75-8, Aug 76 (Rus) DL/77MAR379

Waern U

WHAT MIDDLE-AGED MEN KNOW OF THEIR PARENTS CAUSE OF DEATH AND AGE AT DEATH. A COMPARISON BETWEEN HISTORY AND DEATH CERTIFICATE. Waern U, Hedstrand H, Aberg H *Scand J Soc Med* 4: 123-9, 1976 (Eng) DL/77MAR336
ACCIDENTS; ADULT; AGE FACTORS; AGED; CEREBROVASCULAR DISORDERS (mortality); COMPARATIVE STUDY; DEATH CERTIFICATES; DIABETES MELLITUS (mortality); FEMALE; HEART BLOCK (mortality); HUMAN; INFECTION (mortality); MALE; MEDICAL HISTORY TAKING; MIDDLE AGE; REGISTRIES; SUICIDE; SWEDEN; TUBERCULOSIS, PULMONARY (mortality).

Wagle SR

SOMATOSTATIN INHIBITION OF GLUCAGON-STIMULATED ADENOSINE 3-5-MONOPHOSPHATE ACCUMULATION IN ISOLATED HEPATOCYTES. Oliver JR, Long K, Wagle SR, Allen DO *Proc Soc Exp Biol Med* 153: 367-9, Nov 76 (Eng) DL/77MAR327

Wahl P

[HEPATITIS-B-(HBS) ANTIGEN AND ANTI-HBS IN DIABETIC PATIENTS] Thamer G, Hasslacher C, Wahl P, Kommerell B *Dtsch Med Wochenschr* 101: 1692-3, 12 Nov 76 (Ger) DL/77MAR50

[RISK FACTORS OF ARTERIOSCLEROSIS IN PATIENTS WITH SEVERE BRADYCARDIA ARRHYTHMIAS] Hasslacher C, Wahl P, Thorspecken R, Nussel E *Z Kardiol* 65: 890-6, Oct 76 (Ger) DL/77MAR393

Wahren J

INSULIN, GLUCAGON, AND SOMATOSTATIN IN NORMAL PHYSIOLOGY AND DIABETES MELLITUS. Felig P, Wahren J, Sherwin R, Hender R *Diabetes* 25: 1091-9, Dec 76 (Eng) DL/77MAR123

INFLUENCE OF SOMATOSTATIN ON CARBOHYDRATE DISPOSAL AND ABSORPTION IN DIABETES MELLITUS. Wahren J *Lancet* 2: 1213-6, 4 Dec 76 (Eng) DL/77MAR244
ADMINISTRATION, ORAL; ADULT; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); DIABETES MELLITUS (blood, drug therapy); DRUG EVALUATION; GLUCAGON (antagonists & inhibitors, blood); GLUCOSE TOLERANCE TEST; GLUCOSE (administration & dosage); HUMAN; HYPERGLYCEMIA (drug therapy, etiology); INJECTIONS, INTRAVENOUS; INSULIN (deficiency); INTESTINAL ABSORPTION (drug effects); MIDDLE AGE; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics, therapeutic use); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); XYLOSE (administration & dosage, blood).

INFLUENCE OF LACTATE INFUSION ON GLUCOSE AND FFA METABOLISM IN MAN. Ahlborg G, Hagenfeldt L, Wahren J *Scand J Clin Lab Invest* 36: 193-201, Mar 76 (Eng) *DL/77MAR530

Wakasugi H

[HYPEROSMOLAR NON-KETOTIC DIABETIC COMA—REPORT OF 2 CASES AND STUDIES OF 63 CASES IN JAPANESE LITERATURE] Ibayashi H, Funakoshi A, Wakasugi H, Nakayama K, Kimura Y *Jpn J Clin Med* 34: 2788-99, 10 Sep 76 (Jpn) DL/77MAR223

Waldherr R

[MYOCARDITIS AND INSULITIS FOLLOWING COXSACKIE VIRUS INFECTION] Gladisch R, Hofmann W, Waldherr R *Z Kardiol* 65: 837-49, Oct 76 (Ger) DL/77MAR392

Waldmann TA

THE ROLE OF THE KIDNEY IN THE METABOLISM OF PLASMA PROTEINS. PP. 392-405. Strober W, Waldmann TA *Ino Giovannetti S, et al., ed. Sixth international congress of nephrology. Basel, Karger, 1976. W3 IN446 1975a. (Eng) [27] DL/77MAR191*

Walker CA

THE EFFECTS OF D,L-AMPHETAMINE ON DIURNAL RHYTHMS OF BRAIN AMINES AND BLOOD GLUCOSE LEVELS IN MICE. PP. 165-71. Walker CA, Charlton CG *Ino Singh JM, Lal H, ed. Drug addiction. Vol 40 New aspects of analytical and clinical toxicology. New York, Stratton, 1974. W3 IN917KC 1973d. (Eng) *DL/77MAR511*
AMPHETAMINES (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BIOGENIC AMINES (metabolism); BLOOD SUGAR (metabolism); BRAIN (drug effects, metabolism); CIRCADIAN RHYTHM (drug effects); DIURNAL RHYTHM (drug effects); MALE; MICE; MONOGRAPH (mortality); NOREPINEPHRINE (metabolism); SEROTONIN (metabolism); TIME FACTORS.

Walters F

DIAGNOSIS AND THE DIABETIC PATIENT. Walters F *Dent Stud* 53: 49-52, May 75 (Eng) DL/77MAR78
DIABETES MELLITUS (complications, diagnosis); DIAGNOSIS, ORAL; GINGIVITIS (etiology); HUMAN; ORAL HYGIENE; PERIODONTITIS (etiology).

Wands JR

EFFECT OF INSULIN AND GLUCAGON ON FULMINANT MURINE HEPATITIS. Farivar M, Wands JR, Isselbacher KJ, Bucher NL *N Engl J Med* 295: 1517-9, 30 Dec 76 (Eng) DL/77MAR268

Wapnir RA

CORRELATION OF BLOOD AND BRAIN AMINO ACIDS IN HYPOGLYCEMIC AND

Watkins D

NORMOGLYCEMIC RATS. Wapnir RA *Experientia* 32: 1409-11, 15 Nov 76 (Eng) DL/77MAR70

AGE FACTORS; ALANINE (metabolism); AMINO ACIDS (metabolism); ANIMAL; ANIMALS, NEWBORN; BLOOD SUGAR (metabolism); BRAIN (metabolism); GLUCOSE (metabolism); GLUTAMATES (metabolism); GLUTAMINE (metabolism); HYPOGLYCEMIA (metabolism); RATS; STARVATION.

Watkins D

EFFECT OF ALLOXAN ON ISLET TISSUE PERMEABILITY: PROTECTION AND REVERSAL BY DITHIOLS. Watkins D, Cooperstein SJ *J Pharmacol Exp Ther* 199: 575-82, Dec 76 (Eng) DL/77MAR201

ALLOXAN (pharmacodynamics); ANIMAL; FISHES; IN VITRO; ISLANDS OF LANGERHANS (drug effects, metabolism); PERMEABILITY; SULFHYDRYL COMPOUNDS (pharmacodynamics); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

Watson PB

IN VIVO PLATELET FUNCTION IN DIABETES MELLITUS. Fleischman AI, Bierenbaum ML, Stier A, Somol H, Watson PB *Thromb Res* 9: 467-71, Nov 76 (Eng) DL/77MAR359

Weber FT

THE ROLE OF URINE SUGAR IN DIABETIC MANAGEMENT. Malone JI, Rosenbloom AL, Grgic A, Weber FT *Am J Dis Child* 130: 1324-7, Dec 76 (Eng) DL/77MAR443

Weet JF

A SEMIAUTOMATED MICROMETHOD FOR DEXTRAN IN THE PRESENCE OF GLUCOSE. Weet JF, Cobb CA, Lebric SJ *J Lab Clin Med* 87: 898-902, May 76 (Eng) *DL/77MAR512

AUTOANALYSIS (methods); BLOOD SUGAR; DEXTRAN (blood); HUMAN; INDICATORS AND REAGENTS; MICROCHEMISTRY (methods); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

Wehner H

THE INFLUENCE OF INSULIN AND INSULIN ANTIBODIES ON THE GLOMERULAR STRUCTURE. Wehner H *Acta Endocrinol [Suppl] (Kbh)* 83 SUPPL 205: 241-50, 1976 (Eng) DL/77MAR414

ANIMAL; ANTIBODY SPECIFICITY; BASEMENT MEMBRANE (drug effects, ultrastructure); CELL DIVISION (drug effects); EPITHELIAL CELLS (drug effects, ultrastructure); GUINEA PIGS; HUMAN; IMMUNIZATION; INSULIN ANTIBODIES (analysis, biosynthesis); INSULIN (pharmacodynamics); KIDNEY GLOMERULUS (drug effects, pathology, ultrastructure); MALE; PROTEIN BINDING (drug effects); RABBITS.

Weinert CR Jr

HUMAN FIBULAR DYNAMICS. PP. 1-6. Weinert CR Jr, McMaster JH, Scranton PE Jr, Ferguson RJ *InO Bateman JE, ed. Foot science. Philadelphia, Saunders, 1976. WE 880 A511f 1974.* (Eng) *DL/77MAR506

ANKLE (physiology); BIOMECHANICS; FIBULA (physiology); HUMAN; MONOGRAPH (mortality).

Welborn TA

DIABETES, EMOTIONAL ASPECTS, AND THE EDUCATION OF THE PATIENT. Welborn TA *Med J Aust* 2: 572-3, 576, 9 Oct 76 (Eng) DL/77MAR260

ADAPTATION, PSYCHOLOGICAL; ADOLESCENCE; ADULT; ATTITUDE TO HEALTH; CHILD; DIABETES MELLITUS (therapy, urine); EMOTIONS; GLYCOSURIA; HEALTH EDUCATION; HOSPITALIZATION; HUMAN.

Diabetes Literature—Author Index

Werning C

[THE EFFECTS OF CALCITONIN, GLUCAGON AND THE DIBUTYRYL DERIVATIVE OF CYCLIC AMP ON PLASMA-RENIN ACTIVITY (AUTHORS TRANSL)] Werning C, Stiel D *Dtsch Med Wochenschr* 101: 1690-2, 12 Nov 76 (Ger) DL/77MAR49

ANIMAL; BLOOD PRESSURE: CALCITONIN (pharmacodynamics); CALCIUM (urine); DIBUTYRYL CYCLIC AMP (pharmacodynamics); DOGS; ENGLISH ABSTRACT; GLUCAGON (pharmacodynamics); HEART RATE; MALE; NATRIURESIS; PHOSPHORUS (urine); POTASSIUM (urine); RENIN (blood).

Wexler BC

POLYARTERITIS NODOSA INDUCED IN ARTERIOSCLEROTIC, MALE AND FEMALE BREEDER RATS BY CHRONIC ALLOXAN DIABETES. Wexler BC *Paroi Arterielle* 2: 221-39, May 75 (Eng) DL/77MAR302

ALLOXAN DIABETES (complications); ANIMAL; ARTERIOSCLEROSIS (complications); BLOOD UREA NITROGEN; BREEDING; FEMALE; HYPERLIPEMIA (etiology); HYPERTENSION (complications); INSULIN (secretion); ISLANDS OF LANGERHANS (secretion); LIPIDS (metabolism); MALE; PERIARTERITIS NODOSA (etiology); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

PATHOPHYSIOLOGIC CHANGES IN ARTERIOSCLEROTIC AND NONARTERIOSCLEROTIC RATS, FOLLOWING ISOPROTERENOL-INDUCED MYOCARDIAL INFARCTION. Wexler BC, Judd JT, Lutmer RJ, Saroff J *Recent Adv Stud Cardiac Struct Metab* 1: 463-72, 1972 (Eng) *DL/77MAR526

ADRENAL GLANDS (metabolism); ALANINE AMINOTRANSFERASE (blood); ALDOSTERONE (blood); ANIMAL EXPERIMENTS (analysis); ARTERIOSCLEROSIS (complications, physiopathology); ASPARTATE AMINOTRANSFERASE (blood); BLOOD SUGAR (metabolism); CHOLESTEROL (blood); CREATINE KINASE (blood); FEMALE; GLUCOCORTICIDS (metabolism); HEART FAILURE, CONGESTIVE (etiology, physiopathology); HEART (physiopathology); ISOPROTERENOL; LACTATE DEHYDROGENASE (blood); LIPIDS (metabolism); MALE; MYOCARDIAL INFARCT (chemically induced, complications, physiopathology); MYOCARDIUM (ultrastructure); RATS.

White RI

SACRAL AGENESIS. ANALYSIS OF 22 CASES. White RI, Klauber GT *Urology* 8: 521-5, Dec 76 (Eng) DL/77MAR365

ABNORMALITIES, MULTIPLE (etiology); BLADDER, NEUROGENIC (etiology); CHILD, PRESCHOOL; DIABETES MELLITUS (familial & genetic); FEMALE; HUMAN; INFANT; INFANT, NEWBORN; MALE; SACRUM (abnormalities, radiography); URINARY INCONTINENCE (etiology).

Whitehouse FW

TWO MINUTES WITH DIABETES. Whitehouse FW *Med Times* 104: 97-8, Dec 76 (Eng) DL/77MAR249

AMMONIA (adverse effects); CASE REPORT; DIABETES MELLITUS (drug therapy); DRUG CONTAMINATION; FEMALE; HUMAN; INSULIN (therapeutic use); MIDDLE AGE.

Wiar F

[ROLE OF BIGUANIDES IN THE TREATMENT OF DIABETES MELLITUS] Wiar F *Lille Med* 21: 570-4, Aug-Sep 76 (Fre) DL/77MAR247

BIGUANIDES (therapeutic use); DIABETES MELLITUS (drug therapy); HUMAN.

Wieland RG

COMMUNITY SCREENING FOR DIABETES BY BLOOD GLUCOSE MEASUREMENT. RESULTS OF A FIVE-YEAR EXPERIENCE. Genuth SM, Houser HB, Carter JR Jr, Merkatz I, Price JW, Schumacher OP, Wieland RG *Diabetes* 25: 1110-7, Dec 76 (Eng) DL/77MAR126

Wilk M

[EFFECT OF 2.5 YEARS OF TRAINING IN WEIGHT LIFTING ON BLOOD GLUCOSE AND CORTISOL LEVELS AND THE EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 17-KETOSTEROIDS] Lukaszewska J, Bobilewicz D, Wilk M, Obuchowicz-Fidelus B *Endokrynol Pol* 27: 135-42, Mar-Apr 76 (Pol) *DL/77MAR499

Wilkening D

STIMULATION OF GLYCOGENOLYSIS IN RAT CAUDATE NUCLEUS SLICES BY L-ISOPROPYLNOREPINEPHRINE, DIBUTYRYL CYCLIC AMP AND 2-CHLOROADENOSINE. Wilkening D, Makman MH *J Neurochem* 26: 923-8, May 76 (Eng) *DL/77MAR513

ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (metabolism); ADENOSINE (analogs & derivatives, pharmacodynamics); ANIMAL EXPERIMENTS (analysis); CAUDATE NUCLEUS (drug effects, metabolism); DIBUTYRYL CYCLIC AMP (pharmacodynamics); GLYCOGEN (metabolism); IN VITRO; ISOPROTERENOL (pharmacodynamics); KINETICS; MALE; RATS; TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.); XANTHINES (pharmacodynamics).

Wilkins SD

REVERSAL OF SOMATOSTATIN INHIBITION OF INSULIN AND GLUCAGON SECRETION. Bhatena SJ, Perrino PV, Voyles NR, Smith SS, Wilkins SD, Coy DH, Schally AV, Recant L *Diabetes* 25: 1031-40, Nov 76 (Eng) DL/77MAR117

Williams M

ENCOURAGEMENT BREEDS INDEPENDENCE IN THE BLIND DIABETIC. Schulz JM, Williams M *Nursing (Jenkintown)* 6: 19-20, Dec 76 (Eng) DL/77MAR292

Williams TF

DIABETES EDUCATION -- NEEDS FOR THE PATIENT AND PROFESSIONALS. Williams TF *J Med Soc NJ* 73: 1089-92, Dec 76 (Eng) DL/77MAR215

DIABETES MELLITUS; HEALTH EDUCATION; HEALTH MANPOWER; PATIENTS.

Williams V

PLASMA VOLUMES AND ENTRAPMENT OF PLASMA IN TISSUES OF NORMAL AND INSULIN-IMMUNIZED GUINEA PIGS. Wright PH, Williams V *Proc Soc Exp Biol Med* 153: 92-7, Oct 76 (Eng) DL/77MAR324

Williamson HO

ISOLATED ACTH DEFICIENCY AND PREGNANCY. Satterfield RG, Williamson HO, Facog *Obstet Gynecol* 48: 693-6, Dec 76 (Eng) DL/77MAR298

Willig A

CYCLIC NUCLEOTIDES AND CRUSTACEAN BLOOD GLUCOSE LEVELS. Spindler KD, Willig A, Keller R *Comp Biochem Physiol [A]* 54: 301-4, 1976 (Eng) *DL/77MAR496

Willms B

EFFECT OF THE DOPAMINE RECEPTOR BLOCKING AGENT PIMOZIDE ON THE GROWTH HORMONE RESPONSE TO ARGININE AND EXERCISE AND ON THE SPON-

Diabetes Literature—Author Index

Yoon JW

TANEOUS GROWTH HORMONE FLUCTUATIONS. Schwinn G, Schwarck H, McIntosh C, Miltrey HR, Wills B, Kobberling J *J Clin Endocrinol Metab* 43: 1183-5, Nov 76 (Eng) DL/77MAR172

Wilson AF

ENDOGENOUS CALORIC SOURCES AND NITROGEN BALANCE: REGULATION IN POSTOPERATIVE PATIENTS. Gazzaniga AB, Day AT, Bartlett RH, Wilson AF *Arch Surg* 111: 1357-61, Dec 76 (Eng) DL/77MAR468

Winkler G

STUDIES ON JUVENILE-TYPE DIABETES IN CHILDREN. ASSESSMENT OF CONTROL UNDER TREATMENT WITH CONSTANT AND VARIABLE DOSES OF INSULIN WITH OR WITHOUT ADDITION OF BIGUANIDES. Schatz H, Winkler G, Jonatha EM, Pfeiffer EF *Diabetes Metab* 1: 211-20, Dec 75 (Eng) DL/77MAR103

Wisniewska A

ROLE OF DISTURBED METABOLISM OF FAT TISSUE CELLS IN THE PATHOGENESIS OF THE DIABETOGENIC EFFECT OF OBESITY IN HUMANS. Taton J, Wisniewska A, Switka S *Pol Med Sci Hist Bull* 15: 311-9, Jul-Sep 76 (Eng) DL/77MAR316

Wold F

THE SUBUNIT STRUCTURE OF GLYCOLYTIC ENZYMES. Ruth RC, Wold F *Comp Biochem Physiol* [B] 54: 1-6, 1976 (Eng) *DL/77MAR497

Wolever TM

GUAR GUM IN DIABETES (LETTER). Jenkins DJ, Wolever TM, Haworth R, Leeds AR, Hockaday TD *Lancet* 2: 1086-7, 13 Nov 76 (Eng) DL/77MAR238

Wolf A

[PLASMA CHOLESTEROL IN RECIPIENTS OF KIDNEY TRANSPLANTS] Leithner C, Sinzinger H, Pinggera WF, Stummvoll HK, Wolf A, Oppolzer R *Wien Med Wochenschr* 125: 611-4, 17 Oct 75 (Ger) *DL/77MAR536

Wolf S

ANIMAL MODEL OF HUMAN DISEASE: DIABETES MELLITUS. Wolf S *Am J Pathol* 85: 805-8, Dec 76 (Eng) DL/77MAR448
ANIMAL; CARP; CYPRINIDAE; DIABETES MELLITUS, JUVENILE (pathology); DIET; DISEASE MODELS, ANIMAL; FISH DISEASES (pathology); HUMAN; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

Wolff SM

SURFACE SULPHYDRYL GROUPS AND HEXOSE MONOPHOSPHATE PATHWAY ACTIVITY IN RESTING HUMAN POLYMORPHONUCLEAR LEUCOCYTES. Tsan MF, Newman B, Chusid MJ, Wolff SM, McIntyre PA *Br J Haematol* 33: 205-11, Jun 76 (Eng) *DL/77MAR480

Wolinsky H

LIPID ACCUMULATION IN HUMAN AORTIC SMOOTH MUSCLE CELL LYOSOMES. Coltoff-Schiller B, Goldfischer S, Wolinsky H, Factor SM *Am J Pathol* 83: 39-44, Apr 76 (Eng) *DL/77MAR549

Wollenberger A

PROTEIN SYNTHESIS IN CELL-FREE SYSTEMS FROM TOTALLY ISCHEMIC RAT MYOCARDIUM. Hinterberger U, Wollenberger A *Recent Adv Stud Cardiac Struct Metab* 7: 341-7, 1975 (Eng) *DL/77MAR529

Woodrow JC

GENETIC SUSCEPTIBILITY IN DIABETES MELLITUS: ANALYSIS OF THE HLA ASSOCIATION. Cudworth AG, Woodrow JC *Br Med J* 2: 846-8, 9 Oct 76 (Eng) DL/77MAR14

Woods SC

CONDITIONED HYPOGLYCEMIA. Woods SC *J Comp Physiol Psychol* 90: 1164-8, Dec 76 (Eng) DL/77MAR182
ANIMAL; BLOOD SUGAR (analysis); CONDITIONING, CLASSICAL (physiology); GLUCOSE (administration & dosage); HYPOGLYCEMIA (etiology); INSULIN (administration & dosage); MALE; RATS; SODIUM CHLORIDE (administration & dosage); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

Woodtli W

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Sauerli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337
ADENOMATOSIS, FAMILIAL ENDOCRINE (diagnosis); ADIPOSE TISSUE (pathology); ADRENAL CORTEX (pathology); ADRENAL GLANDS (surgery); ADULT; CALCINOSIS; CASE REPORT; CHOLECYSTECTOMY; CUSHINGS SYNDROME (complications); DIABETES MELLITUS (complications); ENGLISH ABSTRACT; GASTRIN (blood); GLUCAGON (secretion); HUMAN; HYPERPLASIA; ISLANDS OF LANGERHANS (pathology); MALE; NECROSIS; OBESITY (etiology); PANCREAS (surgery); ZOLLINGER-ELLISON SYNDROME (diagnosis).

Worbe JF

[CHANGES IN BLOOD CONSTITUENTS IN RATS AT 1,800 M ALTITUDE AND EFFECT ON PERIODONTIUM] Bessede M, Worbe JF *C R Soc Biol (Paris)* 169: 1224-6, 1975 (Fre) *DL/77MAR491

Wright PH

PLASMA VOLUMES AND ENTRAPMENT OF PLASMA IN TISSUES OF NORMAL AND INSULIN-IMMUNIZED GUINEA PIGS. Wright PH, Williams V *Proc Soc Exp Biol Med* 153: 92-7, Oct 76 (Eng) DL/77MAR324
ANIMAL; BODY WEIGHT; EXTRACELLULAR SPACE; GUINEA PIGS; INSULIN (immunology, metabolism); KIDNEY (anatomy & histology, metabolism); LIVER (anatomy & histology, metabolism); MALE; ORGAN WEIGHT; PLASMA VOLUME; SERUM ALBUMIN (metabolism); SPLEEN (anatomy & histology, metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

Wu CF

THE EFFECTS OF TOLBUTAMIDE ON THE MYOCARDIUM IN EXPERIMENTAL DIABETES. Wu CF, Haider B, Ahmed SS, Oidewurtel HA, Lyons MM, Regan TJ *Circulation* 55: 200-5, Jan 77 (Eng) DL/77MAR41
ALLOXAN DIABETES (physiopathology); ANIMAL; BLOOD SUGAR (metabolism); DISEASE MODELS, ANIMAL; DOGS; HEART (drug effects, physiopathology); HEMODYNAMICS (drug effects); MALE; TOLBUTAMIDE (blood, pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

Wuite TP

TOXICITY OF CHROMIUM (VI) IN FISH, WITH SPECIAL REFERENCE TO ORGANOWEIGHTS, LIVER AND PLASMA ENZYME ACTIVITIES, BLOOD PARAMETERS AND HISTOLOGICAL ALTERATIONS. PP. 31-41. Strik JJ, de Jong HH, van Rijn van Al-

kemade JW, Wuite TP *In: Koeman JH, Strik JJ, ed. Sublethal effects of toxic chemicals on aquatic animals. Amsterdam, Elsevier Scientific, 1975. WA 689 S941 1975. (Eng) [26] *DL/77MAR509*

Yadava HS

INSULIN OF INDIAN SHEEP & GOAT PANCREATIC TISSUE-ISOLATION AND CONTENT. Yadava HS, Ali Z *Indian J Exp Biol* 14: 90-4, Mar 76 (Eng) DL/77MAR155
ANIMAL; COMPARATIVE STUDY; GOATS (metabolism); INDIA; INSULIN (isolation & purification); ISLANDS OF LANGERHANS (analysis); SHEEP (metabolism).

Yamashita K

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64

Yasuda H

INHIBITION OF INSULIN RELEASE BY SYNTHETIC RAT C-PEPTIDE II IN ISOLATED RAT ISLETS. Yasuda H, Suzuki S, Yamashita K, Kaneko T, Oka H *Endocrinol Jpn* 23: 271-3, Jun 76 (Eng) DL/77MAR64
ANIMAL; C-PEPTIDE (pharmacodynamics); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (pharmacodynamics, secretion); ISLANDS OF LANGERHANS (drug effects, secretion); MALE; PEPTIDES (pharmacodynamics); RATS; SPECIES SPECIFICITY.

Yasugi S

[APPEARANCE OF GLUCAGON-PRODUCING CELLS IN THE ENDODERM OF THE ALLANTOIS ASSOCIATED WITH INTESTINAL AND PANCREATIC MESENCHYME] Yasugi S *C R Acad Sci [D] (Paris)* 283: 383-5, 13 Sep 76 (Fre) DL/77MAR38
ALLANTOIS (cytology); ANIMAL; CHICK EMBRYO; COTURNIX; EMBRYONIC INDUCTION; ENDODERM (cytology); ENGLISH ABSTRACT; FETAL MEMBRANES (cytology); GLUCAGON (biosynthesis); INTESTINES (cytology, embryology); PANCREAS (enzymology).

Yip CC

STRUCTURE AND FUNCTION OF INSULIN: PREPARATION AND BIOLOGICAL ACTIVITY OF GUINEA PIG DES B-ASP30, DES-ASN21-INSULIN. Yip CC, Moule ML *Can J Biochem* 54: 866-71, Oct 76 (Eng) DL/77MAR21
ADIPOSE TISSUE (drug effects, metabolism); AMINO ACIDS (analysis); ANIMAL; ASPARAGINE; ASPARTIC ACID; BINDING, COMPETITIVE; BIOLOGICAL ASSAY; CATTLE; GUINEA PIGS; INSULIN (analogs & derivatives, metabolism, pharmacodynamics); KINETICS; MALE; RATS; RECEPTORS, INSULIN (metabolism).
MEASUREMENT AND PARTIAL CHARACTERIZATION OF IMMUNOREACTIVE GLUCAGON IN GASTROINTESTINAL TISSUES OF DOGS. Morita S, Doi K, Yip CC, Vranic M *Diabetes* 25: 1018-25, Nov 76 (Eng) DL/77MAR115

Yoon JW

GENETIC DIFFERENCES IN SUSCEPTIBILITY OF PANCREATIC BETA CELLS TO VIRUS-INDUCED DIABETES MELLITUS. Yoon JW, Lesniak MA, Fussganger R, Notkins AL *Nature* 264: 178-80, 11 Nov 76 (Eng) DL/77MAR272
ANIMAL; BLOOD SUGAR (analysis); DIABETES MELLITUS (etiology, familial & genetic, microbiology); ENCEPHALOMYOCARDITIS VIRUSES; ENTEROVIRUS INFECTIONS (blood,

Diabetes Literature—Author Index

Yoshida M

complications); FEMALE; GENES; INSULIN (blood); ISLANDS OF LANGERHANS (microbiology); MALE; MICE; MICE, INBRED STRAINS; SEX FACTORS; SPECIES SPECIFICITY; VIRUS REPLICATION.

Yoshida M

[DETERMINATION OF SERUM MAGNESIUM] Yoshida M, Ohno J *Jpn J Clin Med* 34 suppl: 2024-35, 1976 (Jpn) DL/77MAR227

ALCOHOLISM (complications); ARRRHYTHMIA (complications); DIABETIC COMA (complications); ERYTHROCYTES (analysis); FEMALE; HEART FAILURE, CONGESTIVE (complications); HUMAN; KIDNEY FAILURE, CHRONIC (blood); LIVER CIRRHOSIS (complications); MAGNESIUM DEFICIENCY (blood, etiology); MAGNESIUM (blood); MALABSORPTION SYNDROMES (complications); MALE; METHODS; POSTOPERATIVE COMPLICATIONS (blood).

Yoshida T

COMPARISON OF THE CHANGES IN PLASMA HUMAN GROWTH HORMONE (HGH) AND IMMUNO-REACTIVE GLUCAGON (IRG) AFTER INTRAVENOUS AND SUBCUTANEOUS INJECTION OF GLUCAGON. Sugase T, Nonaka K, Yoshida T, Morishita S, Toyoshima H, Tarui S, Shima K *Endocrinol Jpn* 23: 187-93, Jun 76 (Eng) DL/77MAR63

Yuen BH

AMENORRHEA, HYPERPROLACTINEMIA AND PITUITARY ENLARGEMENT SECONDARY TO PRIMARY HYPOTHYROIDISM. SUCCESSFUL TREATMENT WITH THYROID REPLACEMENT. Keye WR, Yuen BH, Knopf RF, Jaffe RB, Facog *Obstet Gynecol* 48: 697-702, Dec 76 (Eng) DL/77MAR299

Zaccaria M

PLASMA INSULIN RESPONSE TO GLIBORNURIDE IN THYROTOXICOSIS. Federspil G, Zaccaria M, Casara D, Siculo N, Scandellari C *Diabete Metab* 2: 27-31, Mar 76 (Eng) DL/77MAR111

Zahn U

[EFFECT OF HYPERVENTILATION ON CEREBRAL BLOOD FLOW AND METABOLISM IN MAN; CONTINUOUS MONITORING OF ARTERIO-CEREBRAL VENOUS GLUCOSE DIFFERENCES (AUTHORS TRANSL)] Gottstein U, Zahn U, Held K, Gabriel FH, Textor T, Berghoff W *Klin Wochenschr* 54: 373-81, 15 Apr 76 (Ger) *DL/77MAR518

Zeidler A

ACUTE EFFECT OF ASCORBIC ACID INFUSION ON CARBOHYDRATE TOLERANCE. Scarlett JA, Zeidler A, Rochman H, Rubenstein A *Am J Clin Nutr* 29: 1339-42, Dec 76 (Eng) DL/77MAR441

Zhamkochian LF

[MAIN INDICATORS OF CARBOHYDRATE METABOLISM IN OBESE CHILDREN AND ADOLESCENTS] Dudenko NV, Zhamkochian LF, Belopashentseva SB *Vopr Okhr Materin Det* 21: 14-7, Aug 76 (Rus) DL/77MAR376

Zhukovskii MA

[RELATIONSHIP BETWEEN THE COURSE OF DIABETES MELLITUS IN CHILDREN AND INDICES OF COMPLEMENT AND INSULIN ANTIBODY TITERS] Dreval AV, Zhukovskii MA, Shcherbachova LN, Mikhailova VS *Vopr Okhr Materin Det* 21: 12-7, Feb 76 (Rus) DL/77MAR370

Zidovsky J

[SUBMICROSCOPICAL PICTURE OF THE PLACENTA IN DIABETIC MOTHERS (AUTHORS TRANSL)] Krausova H, Zidovsky J

Cesk Gynekol 41: 564-5, Oct 76 (Cze) DL/77MAR32

Ziegler M

[IMMUNOHISTOCHEMICAL INVESTIGATIONS FOR EVIDENCE OF INSULIN, GLUCAGON AND GASTRIN IN THE ISLETS OF LANGERHANS OF WISTAR RATS DURING THE DEVELOPMENT (AUTHORS TRANSL)] Dorn A, Scharowski KR, Nissen L, Lorenz D, Koch G, Ziegler M *Acta Histochem (Jena)* 56: 270-84, 1976 (Ger) DL/77MAR424

Zimmermann G

[MODIFICATION OF THE FUNCTION OF THE PANCREAS THROUGH DISORDERS OF THE BLOOD- AND LYMPH CIRCULATION. EXPERIMENTAL STUDY] Zimmermann G *Wien Med Wochenschr* 126: 307-14, 21 May 76 (Ger) DL/77MAR388

AMYLASE (blood); ANIMAL; BICARBONATES (blood); BLOOD SUGAR; CHLORIDES (blood); CHOLECYSTOKININ; DOGS; INSULIN (secretion); ISCHEMIA; LIGATION; LYMPH (physiology); PANCREAS (blood supply, metabolism, physiology); POTASSIUM (blood); REGIONAL BLOOD FLOW; SODIUM (blood); STIMULATION, CHEMICAL; SWINE.

Zimmermann K

[GLUCAGON PRODUCING ADENOMATOSIS OF ISLANDS OF LANGERHANS WITH POLYENDOCRINE SYMPTOMS] Woodtli W, Hedinger C, Ammann R, Zimmermann K, Saubertli H *Schweiz Med Wochenschr* 106: 749-54, 29 May 76 (Ger) DL/77MAR337

Zola P

[PRELIMINARY OBSERVATIONS ON THE BEHAVIOR OF IMMUNOGLOBULINS IN DIABETICS TREATED BY DIFFERENT METHODS] Bruno A, Innocenti M, Pasquino M, Pugliese F, Zola P *Minerva Med* 67: 3255-60, 20 Oct 76 (Ita) DL/77MAR280

Zolotarev II

[SIDE EFFECTS AND COMPLICATIONS OF USE OF HORMONAL CONTRACEPTIVES (LITERATURE SURVEY)] Pytel IaA, Zolotarev II, Tsomyk VG, Datuashvili TD *Vopr Okhr Materin Det* 21: 79-81, Aug 76 (Rus) DL/77MAR380

Zweng HC

TECHNIQUES OF ARGON LASER PHOTOCOAGULATION OF DIABETIC DISK NEW VESSELS. Little HL, Zweng HC, Jack RL, Vassiliadis A *Am J Ophthalmol* 82: 675-83, Nov 76 (Eng) DL/77MAR447

Anonymous

A STUDY OF THE EFFECTS OF HYPOGLYCEMIA AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VI. SUPPLEMENTARY REPORT ON NONFATAL EVENTS IN PATIENTS TREATED WITH TOLBUTAMIDE. Anonymous *Diabetes* 25: 1129-53, Dec 76 (Eng) DL/77MAR129

CARDIOVASCULAR DISEASES (complications, etiology); DIABETES MELLITUS (complications, drug therapy); DIABETIC ANGIOPATHIES (complications); DIABETIC NEPHROPATHIES (complications); ELECTROCARDIOGRAPHY; EYE DISEASES (diagnosis); HEART RATE; HUMAN; HYPERTENSION (complications, etiology); KIDNEY DISEASES (diagnosis); MYOCARDIAL INFARCT (complications, etiology); NEOPLASMS (complications); TOLBUTAMIDE (adverse effects, therapeutic use); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

RESEARCH FINDINGS OF POTENTIAL VALUE TO THE PRACTITIONER. Anonymous *JAMA* 237: 19-20, 3 Jan 77 (Eng) DL/77MAR221

DIABETIC RETINOPATHY (surgery); HUMAN; LASER COAGULATION; MOUTH NEOPLASMS (diagnosis); RESPIRATORY HYPERSENSITIVITY (diagnosis); VITREOUS BODY (surgery); XENON (therapeutic use).

DIABETES MELLITUS AND AUTOIMMUNITY [EDITORIAL]. Anonymous *Lancet* 2: 1124-5, 20 Nov 76 (Eng) DL/77MAR241

ADOLESCENCE; ADULT; AUTOANTIBODIES; AUTOIMMUNE DISEASES; CHILD; DIABETES MELLITUS (etiology, immunology); HUMAN; ISLANDS OF LANGERHANS (immunology).

TREATMENT OF DIABETIC RETINOPATHY. Anonymous *Med Lett Drugs Ther* 18: 107-8, Dec 76 (Eng) DL/77MAR264

AGED; DIABETIC RETINOPATHY (classification, surgery, therapy); HUMAN; LIGHT COAGULATION; VITREOUS BODY (surgery).

PLEASE DONT EAT THE REAGENT. Anonymous *Pediatr Nurs* 2: 23-4, Nov-Dec 76 (Eng) DL/77MAR306

BURNS, CHEMICAL (etiology); CHILD, PRESCHOOL; ESOPHAGITIS (chemically induced); GLYCOSURIA (diagnosis); HUMAN; INDICATORS AND REAGENTS (poisoning); INFANT; SODIUM HYDROXIDE (poisoning).

[COLLAGEN DISEASES WITH MULTIPLE SYSTEMIC MANIFESTATIONS WITHOUT A BASIC SYMPTOM] Anonymous *Praxis* 65: 1167, 21 Sep 76 (Ger) DL/77MAR321

CASE REPORT; DIABETES MELLITUS (complications); DIABETIC COMA (etiology); FEMALE; HUMAN; INSULIN (therapeutic use); LEG; LUPUS ERYTHEMATOSUS, SYSTEMIC (complications); MIDDLE AGE; MITRAL VALVE INSUFFICIENCY (etiology); PARALYSIS (etiology); PERICARDITIS (etiology); PLEURAL EFFUSION; PREDNISONE (therapeutic use).

DIABETIC RETINOPATHY STUDY [LETTER]. Anonymous *Am Fam Physician* 14: 29, Dec 76 (Eng) DL/77MAR439

DIABETIC RETINOPATHY (surgery); HUMAN; LIGHT COAGULATION.

LETTER: HYPOTHALAMIC/PITUITARY/ADRENAL FUNCTION IN PATIENTS ON CHEMOTHERAPY. Anonymous *Lancet* 1: 1238-9, 5 Jun 76 (Eng) *DL/77MAR520

ADRENAL GLANDS (drug effects, physiopathology); ANTINEOPLASTIC AGENTS (therapeutic use); BLOOD SUGAR (analysis); DRUG THERAPY; HODGKINS DISEASE (drug therapy); HUMAN; HYDROCORTISONE (metabolism); HYPOTHALAMUS (drug effects, physiopathology); LYMPHOMA (drug therapy, physiopathology); PITUITARY GLAND (drug effects, physiopathology); PREDNISOLONE (therapeutic use); SOMATOTROPIN (blood).

LETTER: ACCURACY OF BLOOD GLUCOSE MEASUREMENTS USING A REFLECTANCE METER. Anonymous *Med J Aust* 1: 414-5, 20 Mar 76 (Eng) *DL/77MAR521

AUTOANALYSIS; BLOOD SUGAR (analysis); COLORIMETRY; COMPARATIVE STUDY; HUMAN.

MAN;

US

UNITY
124-5,

DIES;
ETES
N;
).

ATHY.
8, Dec

Y

GENT.
Dec 76

AN;

);
g).

TIPLE
OUT A
is 65:

y);
use);
MIC

SONE

TER].
Dec 76

MAN;

//ADR
ON
et 1:

ENTS
);
drug

ects,
py,
ug

).

COSE
ANCE
-5, 20

is);
;

DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH
BETHESDA, MD. 20014

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF H.E.W.

HEW 394



**SPECIAL FOURTH CLASS
BOOK RATE**

CORRESPONDENCE CONCERNING THIS PUBLICATION

PAID SUBSCRIPTIONS: If your address has changed and you wish to continue receiving this publication, please check here, enclose address label from this publication and your new address, and send to:

SUPERINTENDENT OF DOCUMENTS
U.S. GOVERNMENT PRINTING OFFICE
WASHINGTON, D.C. 20402

FREE SUBSCRIPTIONS: If your address has changed and you wish to continue receiving this publication, please check here, enclose address label from this publication and your new address, and send to:

SCIENTIFIC COMMUNICATIONS OFFICE
NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM,
AND DIGESTIVE DISEASES
NATIONAL INSTITUTES OF HEALTH
BUILDING 31, ROOM 9A-03
BETHESDA, MARYLAND 20014

Individual copies should be purchased from the Superintendent of Documents.

